# SHARP

# SERVICE MANUAL/SERVICE-ANLEITUNG/MANUEL DE SERVICE

S2913CD-302HK

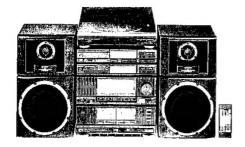
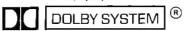


PHOTO: CD-302H(BK) RP-302H(BK) CP-302(BK)





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CD-302H/E(BK) RP-302H/E(BK) CP-302(BK)

#### Note for users in UK

Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Act 1958, the Performers Protection Act 1963 and 1972 and to any subsequent statutory enactments and orders.

- In the interests of user-safety the set should be #stored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte diesesßerät wieder auf seinen ursprünglichen Zustand eingestellt und nur di vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appaeil devra é reconstitué dans sa condition première et seules des piècidentiques à celles spécifiées, doivent être utilisées.

## INDEX TO CONTENTS

| (E)                     | Page   |
|-------------------------|--------|
| SAFETY REGULATIONS      | 2, 3   |
| SPECIFICATIONS          | 4-6    |
| NAMES OF PARTS          | 7-10   |
| DISASSEMBLY             | 11-14  |
| REPLACEMENT OF PICKUP   | 15, 16 |
| FITTING OF CD MECHANISM | 15, 16 |
| FITTING OF DISC HOLDER  | 15, 16 |
| BLOCK DIAGRAM           | 17, 18 |
| FUNCTION TABLE OF IC    | 19-30  |
| ADJUSTMENT              | 31-38  |
|                         |        |

| Pag \ WIRING OF PRIMARILY SUPPLY LEADS (CD-302E 0NLY) 3 |
|---|
| NOTES ON SCHEMATIC DIAGRAM                              |
| WIRING SIDE OF P.W.BOARD/                               |
| SCHEMATIC DIAGRAM 41 – 68                               |
| EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC 69-75          |
| EXPLODED VIEW   |
| PACKING METHOD (CD/RP-302E/CP-302 ONLY) 83, 84          |
| REPLACEMENT PARTS LIST 85-97                            |
| SERVICE INFORMATION                                     |
|   |

### **INHALTSVERZEICHNIS**

| Seite                                  |        |
|--|--------|
| SICHERHEITSVORSCHRIFTEN                | EINSTI |
| TECHNISCHE DATEN4-6                    | ANME   |
| BEZEICHNUNG DER TEILE 7-10             | VERD   |
| ZERLEGEN 11-14                         | SCH    |
| AUSWECHSELN DES ABTASTERS 15, 16       | ERSAT  |
| ANBRIGEN DES CD-MECHANISMUS 15, 16     | DES    |
| ANBRINGEN DES DISCHALTERS 15, 16       | EXPLO  |
| BLOCKSCHALTPLAN 17, 18                 | ERSAT  |
| FUNKTIONTABELLE VOM INTEGRIERTEN 19-30 | SERVE  |
|  |        |

|  | Seite            |
|--|------------------|
| EINSTELLUNG 31                           | -38              |
| ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN | 40               |
| VERDRAHTUNGSSEITE DER LEITERPLATTE/      |                  |
| SCHEMATISCHER SCHALTPLAN 41              | -68              |
| ERSATZSCHALTKREIS (BLOCKSCHALTPLAN)      |                  |
| DES INTEGRIERTEN SCHALTPLAN 69           | <del>3</del> −75 |
| EXPLOSIONSDARSTELLUNG 76                 | 3-82             |
| ERSATZTEILLISTE 85                       | 5-97             |
| SERVICEINFORMATION                       | 98               |
|  |                  |

## TABLE DES MATIÈRES

| F                                   | Page   |
|-------------------------------------|--------|
| PRESCRIPTIONS RELATIVES ÀLASÉCURITÉ |        |
| CARACTÉRISTIQUES                    |        |
| NOMENCLATURE                        | 7-10   |
| DÉMONTAGE                           | 11-14  |
| REMPLACEMENT DU PORTE-LASER         | 15, 16 |
| MONTAGE DU MÉCANISME CD             |        |
| MONTAGE DU PORTE-CD                 | 15, 16 |
| DIAGRAMME SYNOPTIQUE                | 17, 18 |
| TABLE DE FONCTIONS DE CI            | 19-30  |
| RÉGLAGE                             | 31-38  |

| Page REMARQUES CONCERNANT DIAGRAMME |
|-------------------------------------|
| SCHÉMATIQUE40                       |
| CÔTÉ CÂBLAGE DE LA                  |
| PLAQUETTE DE MONTAGE IMPRIMÉ/       |
| DIAGRAMME SCHÉMATIQUE 41-68         |
| CIRCUITS ÉQUIVALENTS (DIAGRAMME     |
| SYNOPTIQUE) DE CI                   |
| VUE EN ÉCLATE 76-82                 |
| LISTE DES PIÈCES DE RECHANGE 85-97  |

INFORMATION DE SERVICE ...... 98



FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

## SAFETY REGULATIONS

#### Cares when replacing and servicing the Pickup

Precautions to be taken when replacing and servicing the laser pickup. AEL (Accessible Emission Level) of laser output for this model is specified to be lower than Class 1 requirement. However, the following precautions must be observed to avoid exposure of laser to your eyes at the time of servicing.

- If power is turned on after the cabinet and disc pressure arm have been removed, disc detection is executed, and the laser diode lights for several seconds. If the compact disc has not been loaded, do not look into the pickup lens.
- Laser output of the pickup of the set or service parts has been adjusted before shipping.
- When replacing or servicing the pickup, do not attempt to adjust the pickup.

#### CAUTION

"THE UNIT CONTAINS A LASER COMPONENT, EMITTING A LASER BEAM WHICH IS SOME INSTANCES MAY EXCEED THE CLASS 1 LASER LEVEL. DO NOT STARE INTO BEAM."

#### CD-302H

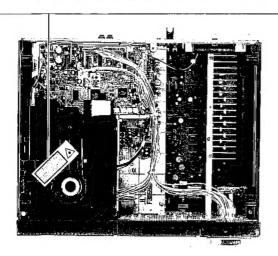
CAUTION: INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. AVOID EXPOSURE TO BEAM.

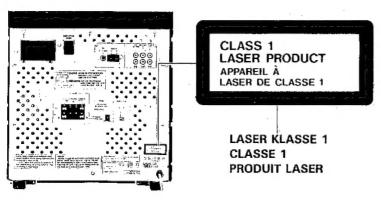
ADVARSEL: USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.

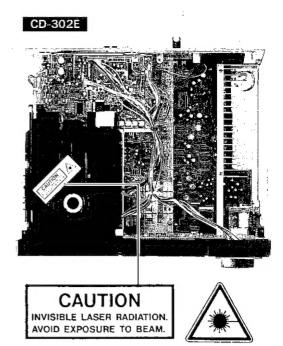


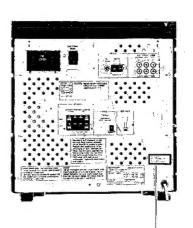
√ORSICHT: UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT.

ATTENTION: NE PAS REGARDER À L'OEIL NU LES RAYONS LASER.









CLASS 1 LASER PRODUCT APPAREIL À LASER DE CLASSE 1

(F)

. VOLLSTÄNDIGE BESCHREIBUNG DER BEDIENUNG ÆSES GERÄTES IST IN DER BEDIENUNGSANLEITUNG ENTHALTEN.

DER BEDIENUNG POUR LA DESCRIPTION COMPLÈTE DU FONCTION-NEMTNE DE CET APPAREIL, SE REPORTER AU MODE D'EMPLOI.

#### SICHERHEITSVORSCHRIFTEN

## Zu ergreifende Vorsichtsmaßregeln beim Auswechseln und Warten des Laserabtasters.

AEL (zulässiger Emissionspegel) der Laserleistung für dieses Modell wird unter den Meßwertanforderungen angegeben, welche niedrigere Werte als in der Klasse 1 aufweisen.

Die folgenden Vorsichtsmaßregeln müssen jedoch befolgt werden, damit während der Wartung die Augen keiner Laserstrahlung ausgesetzt sind.

- Wenn das Gerät nach dem Entfernen des Gehäuses und des Disc-Druckarms eingeschaltet wird, wird die Disc-Detektorfunktion aktiviert, und die Laserdiode blitzt mehrere Sekunden lang. Wenn die Disc nicht eingelegt ist, unbedingt jeglichen Augenkontakt mit der Abtasterlinse vermeiden.
- Laserleistung des Abtasters von den Geräte- oder Wartungsteilen wurde vor der Auslieferung eingestellt.
- Man darf beim Auswechseln oder Warten des Abtasters nicht versuchen, den Abtaster einzustellen.

## PRESCRIPTIONS RELATIVES À LA SÉCURITÉ

#### Précautions à prendre lors du remplacement et de la réparation du porte-laser

L'AEL (Niveau d'émission accessible) de la sortie laser du présent modèle est inférieur à celui préconisé par Classe 1. Il serait toutefois prudent de prendre les précautions ci-dessous pour protéger les yeux contre les rayons laser lors de la réparation.

- Si on met l'appareil sous tension après avoir enlevé le coffret et le bras de pression de disque, la détection du disque sera exécutée et la diode laser s'allumera pendant quelques secondes. Lorsque le disque n'est pas mis en place, ne pas regarder l'objectif du porte-laser.
- La sortie laser du porte-laser ou de pièces de rechange a été ajustée avant l'expédition.
- Éviter de régler le porte-laser lors du remplacement ou du dépannage.

THE UNIT CONTAINS A LASER COMPONENT, EMITTING A LASER BEAM WHICH IN SOME INSTANCES MAY EXCEED THE CLASS 1 LASER LEVEL UNDER FAULT CONDITION. DO NOT STARE INTO BEAM.

DAS GERÄT ENTHÄLT EIN LASERBAUTEIL, WELCHES EINEN LASERSTRAHL ABGIBT, DER IN EINIGEN FÄLLEN ÜBER DER KLASSE 1 FÜR LASERERZEUGNISSE UNTER STÖRUNGSZUSTAND LIEGT. NIEMALS AUF DEN STRAHL STARREN.

CET APPAREIL CONTIENT UN ÉLÉMENT ÉMETTANT DES FAISCEASUX LASER, QUI, DANS UNE CONDITION ÉRRO-NÉE, PEUVENT DÉPASSER LE NIVEAU LASER DE CLASSE 1. NE PAS REGARDER LES FAISCEAUX LASER.

#### For DEMKO

#### **ADVARSEL**

Usynlig laser stråling når apparatet er åbent og sikkerhedsafbrydere er ude af funktion.

#### UNDGÅ BESTRÅLING

#### For SEMKO

"apparaten innehåller en laserkomponent som avger en laserstrålning som överstiger gränsen för laser klass 1."

#### For El

"Varoitus. Laite sisältää laserdiodin, joka lähettää näkymätöntä silmille vaarallista lasersäteilyä."



#### SPECIFICATIONS

#### CD-302H/E

### ■ Compact disc stereo System

General

Power source:

AC 220 V, 50 Hz

(CD-302H)

Power source:

AC 240 V, 50 Hz

(CD-302E)

Power consumption:

220 W

Dimensions:

Width; 360 mm (14-3/16") Height; 386 mm (15-1/4") Depth; 335 mm (13-1/4")

Weight:

8.3 kg (18.3 lbs.)

Amplifier section

Music power output:

2 x 50 W (DIN 45 324)

(CD-302H)

Music power output:

2 x 50 W/8 ohms, 10 % T.H.D.,

(CD-302E)

1 kHz

Continuous power output: 2 x 25 W (DIN 45 324)

(CD-302H)

Continuous power output: 2 x 25 W/8 ohms, 10 % T.H.D.,

1 kHz (CD-302E) Input sensitivity and input impedance:

AUX; 350 mV/47 kohms

PHONO; 2.7 mV/47 kohms

Speakers; 8 ohms Loaded impedance:

Headphones; 8 - 50 ohms (recommended 32 ohms)

Tuner section

Frequency range:

FM; 87.5 - 108 MHz MW; 522 - 1,620 kHz

LW; 153 - 281 kHz

Usable sensitivity (mono):

FM;  $2.5 \mu V$  (40 kHz deviation,

S/N 26 dB)

MW; 500 µV/m (with loop aerial) LW; 500 µV/m (with loop aerial)

Cassette deck section

Compact cassette tape

Bias and erasure system:

AC 98 kHz

Tape speed:

4.76 cm/sec (1-7/8 ips)

Frequency response:

Normal tape; 30 - 14,000 Hz CrO2 tape; 30 - 15,000 Hz

Dolby NR off; 56 dB

S/N ratio (CrO2 tape):

Dolby NR effect; 10 dB

(at over 5 kHz)

Compact disc player section

Signal readout: Rotational speed: Non-contact; semiconductor laser Approx. 200 - 500 rpm CLV

Error correction:

CIRC (Cross Interleave Reed-

Solomon Code)

Audio channels:

Quantization: D/A converter: 16-bit linear 16-bit linear

Filter:

16-bit digital and active filter

Frequency response:

20 - 20,000 Hz 90 dB (1 kHz)

Dynamic range: Wow & flutter:

Unmeasurable

RP-302H/E

■ Full automatic stereo turntalbe

Power source:

DC 12 V

Belt drive, full advor-

Type: Speed:

33-1/3 and 45 rpm

Motor:

DC motor

S/N ratio:

60 dB (DIN-B)

Wow and flutter:

±0.15 % (DIN 45 500)

0.1 % (WRMS)

Output: Frequency response: 2.7 mV (1 kHz, 50 mm/sec.) 20 - 20,000 Hz

Tracking force:

3.5 g

Tonearm:

Dynamic balanced straight tonearm

Cartridge:

Magnetic type (CART-160)

Replacement stylus:

STY-160

Dimensions:

Width; 360 mm (14-3/16")

Height; 97 mm (3-7/8")

Depth; 356.5 mm (14-1/16") 2.2 kg (4.8 lbs.)

■ Speaker systems

Speaker:

Weight:

CP-302

2-way, 20 cm (8") woofer and 5

cm (2") tweeter type

Maximum input power: 50 W

Impedance: Dimensions:

8 ohms

Width; 260 mm (10-1/4") Height; 441.5 mm (17-7/16")

Depth; 215 mm (8-1/2")

Weight:

3.8 kg (8.4 lbs.)/each

Specifications for this model are subject to change with-

out prior notice.

#### TECHNISCHE DATEN

#### CD-302H

#### **■ Compact Disc Stereo System**

Allgemein

Spannungsversorgung: Netzspannung 220 V, 50 Hz

Leistungsaufnahme:

220 W

Abmessungen:

Breite; 360 mm

Höhe; 386 mm

Tiefe; 335 mm

Gewicht:

8,3 kg

Verstärker-Teil

Musikleistung: Dauerleistung: 2 x 50 W (DIN 45 324) 2 x 25 W (DIN 45 324)

Eingangsempfindlichkeit und -impedanz:

AUX; 350 mV/47 kOhm

PHONO; 2,7 mV/47 kOhm

Belastungsimpedanz:

Lautsprecher; 8 Ohm Kopfhörer; 8 - 50 Ohm

(empfohlen 32 Ohm)

Tuner-Teil

Frequenzbereich:

UKW; 87,5 - 108 MHz MW; 522 - 1620 kHz

LW; 153 - 281 kHz

Verwendbare Empfindlichkeit (Mono):

UKW; 2,5 µV (40 kHz Hub, 26 dB

Rauschabstand)

MW; 500 µV/m (mit Rahme-

nantenne)

LW; 500 µV/m (mit Rahme-

nantenne)

Cassettendeck-Teil

Band:

Kompaktcassettenband

Vormagnetisierung und Löschsystem:

Netzspannung 98 kHz

Bandlaufgeschwindigkeit:

4.76 cm/s

Frequenzgang:

Normalband; 30 - 14.000 Hz

CrO<sub>2</sub>-Band; 30 - 15.000 Hz

Rauschabstand (CrO2-Band):

Dolby NR ausgeschaltet; 56 dB Dolby NR-Effekt; 10 dB (bei über 5

kHz)

Compact Disc Spieler-Teil

Signalablesung:

Kontaktloser Halbleiter-Laser Ca. 200 - 500 Upm CLV

Drehzahl: Fehlerkorrektur:

CIRC (Kreuzverschachtelungs-

Reed-Solomon-Code)

Tonkanäle:

2 Kanäle

Quantisierung:

16-Bit linear

Digital/Analog-Umwandler:

16-Bit linear

Frequenzgang:

Filter:

16-Bit-Digitalfilter und Aktivfilter

20 - 20.000 Hz

Dynamikbereich:

90 dB (1 kHz)

Gleichlaufschwankungen:

Unterhalb der Meßgrenze

#### RP-302H

■ Vollautomatischer Stereo-Plattenspiele

Spannungsversorgung: Gleichspannung 12V

Typ:

Riemenantrieb, vollautomatisch

Drehzahl:

33-1/3 und 45 U/min

Motor:

Gleichstrommotor

Rauschabstand:

60 dB (DIN-B)

Gleichlaufschwankungen:

±0.15 % (DIN 45 500)

0,1% (WRMS)

Ausgang:

2,7 mV (1 kHz, 50 mm/s)

Frequenzgang:

20 - 20.000 Hz

Auflagekraft:

Tonarm:

3.5 g

Dynamisch balancierter gerader

Tonarm

Tonabnehmer:

Magnetischer Typ (CART-160)

Ersatznadel: Abmessungen: STY-160 Breite; 360 mm

Höhe: 97 mm

Tiefe; 356,5 mm

Gewicht:

2,2 kg

### CP-302

■ Lautsprecher-Systeme

Lautsprecher:

2-Weg-Ausführung, 20 cm-Tiftöner

und 5 cm-Hochtöner

Maximale Belastbarkeit: 50W Impedanz: 8 Ohm

Abmessungen:

Breite; 260 mm

Höhe; 441,5 mm Tiefe; 215 mm

Gewicht:

je 3,8 kg

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

## **CARACTÉRISTIQUES**

#### CD-302H

■ Chalne compacte avec lecteur CD

Général

Alimentation:

220 V CA, 50 Hz

Consommation:

220 W

Dimensions:

Largeur; 360 mm

Hauteur; 386 mm

Profondeur; 335 mm

Poids:

8.3 kg

Amplificateur

Sortie de puissance musicale:

2 x 50 W (DIN 45 324)

Sortie de puissance continue:

2 x 25 W (DIN 45:324)

Sensibilité d'entrée et impédance d'entrée:

AUX; 350 mV/47 k ohms

PHONO: 2.7 mV/47 k ohms

Impédance normale:

Enceintes; 8 ohms. Casque; 8-50 ohms

(32 ohms recommandé)

Tuner

Gamme de fréquences:

FM; 87,5-108 MHz

PO: 522-1.620 kHz GO; 153-281 kHz

Sensibilité utilisable (mono):

FM; 2,5 μV (40 kHz de déviation,

S/B 26 dB)

PO; 500 μV/m (avec cadre-antenne) GO; 500 µV/m (avec cadre-antenne)

Platine à cassette

Bande:

Cassette compacte Système de polarisation et d'effacement:

CA 98 kHz

Vitesse de défilement:

4.76 cm/s

Réponse en fréquence:

Bande normale; 30-14.000 Hz Bande CrO<sub>2</sub>; 30-15.000 Hz

Rapport S/B (Bande CrO<sub>2</sub>):

Dolby NR hors circuit; 56 dB Effet Dolby NR; 10 dB (á plus de 5 kHz)

Lecteur de compact disc

Procédé de lecture:

Sans contact, par laser à semi-

conducteur

Vitesse de rotation:

Approx. 200-500 tr/mn CLV

Système de correction:

CIRC (Cross Interleave Reed-

Solomon Code)

Canaux audio: Quantification:

Filtre:

2 canaux

Linèaire 16 bits Linèaire 16 bits

Convertisseur N/A

Numèrique 16 bits et actif

Réponse en fréquence:

20-20.000 Hz

Gamme dynamique:

90 dB (1 kHz)

Pleurage et scintillement:

Non mesurable

RP-302H

■ Platine-disque stéréo automatique intégrale

Alimentation:

12 V CC

Type:

Entrainement par courrole,

automatique

Vitesse:

33 1/3 et 45 tr/mn

Moteur:

Moteur CC

Rapport S/B:

60 dB (DIN-B)

Pleurage et scintillement:

±0.15 % (DIN 45 500)

0,1% (WRMS)

Sortie:

2,7 mV (1 kHz, 50 mm/s)

Réponse en fréquence:

20-20.000 Hz

Force d'appui:

3,5 g

Bras de lecture:

Bras direct à équilibrage dynamique

11 211 12

Cellule:

Type magnètique (CART-160)

Pointe de rechange:

STY-160

Dimensions:

Largeur; 360 mm

Hauteur; 97 mm

Profondeur; 356,5 mm

Poids:

2,2 kg

#### CP-302

■ Enceintes acoustiques

Haut-parleur:

A 2 voies, woofer de 20 cm et

tweeter de 5cm

Puissance d'entrée maximale:

50 W

Impédance:

8 ohms

Dimensions:

Poids:

Largeur; 260 mm

Hauteur; 441,5 mm

Profondeur; 215 mm 3,8 kg/chacune

Les caractéristiques de ce modèle sont sujettes à modification sans préavis.

50. Headphone Socket

51. Power Switch

52. Function Selector Buttons and Indicators

53. Remote Control Sensor

54. Balance Control

55. TAPE 2) Tape Counter and Reset Button

56. TAPE 2) Cassette Compartment

57. TAPE 1) Cassette Compartment

58. Dolby NR Indicator

59. Dolby NR Switch

60. Dubbing Speed Switch

61. Record Button: •

62. Play Button: >

63. Rewind Button:

64. Fast Forward Button: ▶▶

65. Stop/Eject Button: ■/▲

66. Pause Button: II

67. Play Button: ►

68. Rewind Button: ◄◄

69. Fast Forward Button: ▶►

70. Stop/Eject Button: ■/▲

71. Pause Button: II

72. TAPE 2) Tape Selector Switch

73. TAPE 1) Tape Selector Switch

74. Battery Compartment

75. MW/LW Loop Aerial Holder

76. External FM Aerial Socket

77. External MW/LW Aerial Earth Terminal

78. External MW/LW Aerial Terminal

79. Phono Input Sockets

80. Record Output Sockets

81. Auxiliary Input Sockets

82. Beat Cancel Switch

83. Front Speaker Terminals

84. Rear Speaker Terminals

85. Phono Power Supply Socket (DC 12 V)

86. AC Supply Lead

#### ■ Remote Control

1. Function Selector Buttons

2. Remote Control Transmitter Window

3. Band Selector Buttons (To recall preset stations)

4. Preset Up/Down Buttons

5. Stop/Clear Button

6. Repeat Button

7. Play Button: ►

8. Pause Button: II

9. Memory Button

10. Track Down/Review/APSS Button: ◄<

11. Track Up/Cue/APSS Button: ▶►

12. Track Number Input Buttons

13. Volume Up/Down Buttons

14. Power Button

15. Muting Button

16. Surround Buttons

17. Extra Bass Buttons

#### ■ Proper use of the remote control

Aim (within range 60° with no obstacles) the remote control at the remote control sensor and operate.

### CP-302

87. Tweeter

88. Woofer

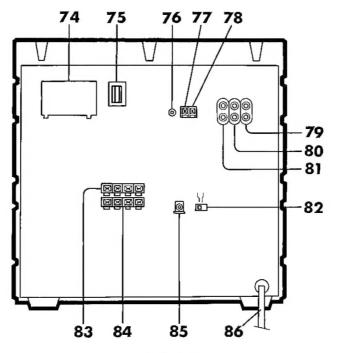


Figure 9-1

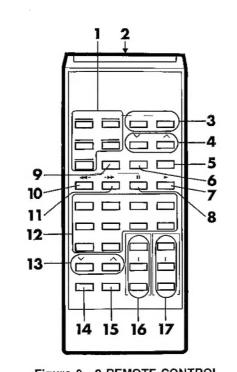


Figure 9-2 REMOTE CONTROL

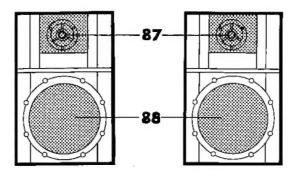


Figure 9-3

49. Lautstärkeregler und -anzeige

50. Kopfhörerbuchse

51. Netzschalter

52. Funktionswahltasten und -anzeigen

53. Fernbedienungssensor

54. Balanceregler

55. TAPE 2) Bandzählwerk und Rückstelltaste

56, TAPE 2) Cassettenfach

57. TAPE 1) Cassettenfach

58. Dolby-NR-Anzeige

59. Dolby-NR-Schalter

60. Überspielgeschwindigkeitsschalter

61. Aufnahmetaste: •

62. Wiedergabetaste: ►

63. Rückspultaste: ◄◄

64. Schnellvorlauftaste: ▶►

65. Stopp-/Auswurftaste: ■/▲

66. Pausentaste: II

67. Wiedergabetaste: ►

68. Rückspultaste: <

69. Schnellvorlauftaste: ▶►

70. Stopp-/Auswurftaste: ■/ ▲

71. Pausentaste: II

72. TAPE 2) Bandsortenwahlschalter

73. TAPE 1) Bandsortenwahlschalter

74. Batteriefach

75. MW/LW-Rahmenantennenhalter

76. UKW-Außenantennenbuchse

77. MW/LW-Außenantennenerdklemme

78. MW/LW-Außenantennenklemme 79. Plattenspieler-Eingangsbuchsen

80. Aufnahme-Ausgangsbuchse

81. Reserveeingangsbuchsen

82. Schwebungsunterdrückungsschalter

83. Klemmen für vordere Lautsprecher

84. Klemmen für hintere Lautsprecher 85. Plattenspieler-Netzanschlußbuchse (Gleichspannung 12 V)

86. Netzkabel

#### ■ Fernbedienug

1. Funktionswahltasten

2. Fernbedienungs-Sendefenster

3. Wellenbereichswahltasten (Zum Abrufen der Fest sender)

4. Aufwärts-/Abwärts-Festsendertasten

5. Stopp-/Löschtaste

6. Wiederholtaste

7. Wiedergabetaste: >

8. Pausetaste: II

9. Speichertaste

10. Titel-Abwärts-/Rückwärtssuchlauf/APSS-Taste: ◀◀

11. Titel-Aufwärts-/Vorwärtssuchlauf/APSS-Taste: ▶▶

12. Titelnummern-Eingabetasten

13. Aufwärts-/Abwärts-Lautstärketasten

14. Einschalttaste

15. Stummschaltungstaste

16. Surround-Tasten

17. Extratieftontasten

#### ■ Richtige Verwendung der Fernbedienung

Die Fernbedienung (innerhalb eines Bereichs von 60° ohne Hindernisse) auf den Fernbedienungssensor richten und die Bedienung vornehmen.

## CP-302

87. Hochtöner

88. Tieftöner

49. Commande et voyant de volume

50. Prise de casque

51. Commutateur marche/arrêt

52. Sélecteurs et vovants de fonction

53. Capteur de télécommande

54. Commande de balance

55. Platine 2) Compteur de bande et touche de remise à zéro

56. Platine 2) Compartiment de cassette

57. Platine 1) Compartiment de cassette

58. Voyant Dolby NR

59. Commutateur Dolby NR

60. Commutateur de vitesse de copie

61. Touche d'enregistrement: •

62. Touche de lecture:

63. Touche de rebobinage: ◄◄

64. Touche d'avance rapide: ▶► 65. Touche d'arrêt/éjection: ■/ ▲

66. Touche de pause: II

67. Touche de lecture: ►

68. Touche de rebobinage: ◄◄

69. Touche d'avance rapide: ▶►

70. Touche d'arrêt/éjection: ■/▲

71. Touche de pause: II

72. Platine 2) Sélecteur de bande

73. Platine 1) Sélecteur de bande 74. Logement de piles

75. Support du cadre-antenne PO/GO

76. Prise d'antenne extérieure FM 77. Borne de terre d'antenne extérieure PO/GO

78. Borne d'antenne extérieure PO/GO

79. Prises d'entrée phono

80. Prises de sortie d'enregistrement

81. Prises d'entrée auxiliaire 82. Commutateur antibattement

83. Bornes d'enceinte avant

84. Bornes d'enceinte arrère

85. Prise d'alimentation phono (12 V CC) 86. Cordon d'alimentation

## ■ Télécommande

1. Sélecteurs de fonction

2. Fenêtre d'émission de télécommande

3. Sélecteurs de gamme d'ondes (Pour rappeler/les stations

présélectionnées)

4. Touches de présélection haut/bas 5. Touche d'arrêt/effacement

6. Touche de répétition

7. Touche de lecture: > 8. Touche de pause: II

9. Touche de mémoire

10. Touche de plage bas /repérage arrière/APSS: ◄◄ 11. Touche de plage haut/repérage avant/APSS: ▶►

12. Touches d'entrée de numéro de plage

13. Touches de volume

14. Touche marche/arrét

15. Touche de réglage silencieux

16. Touches surround 17. Touches des extra-graves

■ Manipulation de la télécommande Diriger la télécommande (dans une plage de 60° sans obstacle) vers le capteur de télécommande.

#### CP-302

87. Tweeter

88. Woofer

 $\bigcirc$ 

## DISASSEMBLY

#### Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

- Take cassette tape, record and compact disc out of the unit.
- 2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
- Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
- Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

## CD-302H/E

|      |             |   | , ,    |
|------|-------------|---|--------|
| STEP | REMOVAL     | PROCEDURE   | FIGURE |
| 1    | Top Cabinet | 1. Screw(A)x7   | 11-1   |
| 2    | Back Board  | 1. Screw (B)x14   | 11-2   |
| 3    | Side Panel  | 1. Screw (C)x6  | 11-3   |
| 4    | CD Unit     | 1. Push the Rack Gear 2. Disc Panel (D1)x1 3. Socket (D2)x3 4. Screw (D3)x5 | 11-3   |
| 5    | CD PWB      | 1. Socket (E)x5   | 11-3   |
| 6    | Tuner PWB   | 1. Socket(F1)x4<br>2. Screw(F2)x3   | 11-4   |

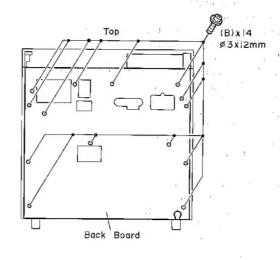


Figure 11-2

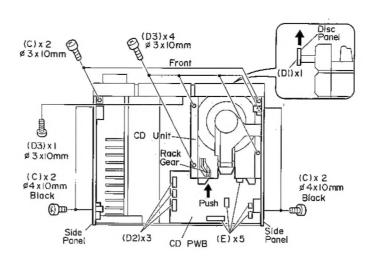


Figure 11-3

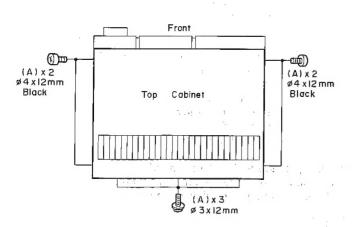


Figure 11-1

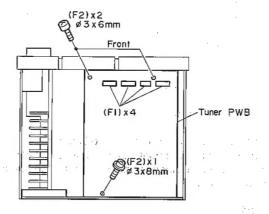


Figure 11-4

## ZERLEGEN

#### Vorsichtsmassregeln Für Das Zerlegen

Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.

- Cassettenband/Schallplatte/Compact-Disc von der Einheit abnehmen.
- Bevor mit dem Zerlegen des Gerätes begonnen wird, unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen.
- Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
- Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

#### CD-302H

| SCH-<br>RITT | FMTEERMEN"   VEDEAUDEM   |   |      |  |
|--------------|--------------------------|---|------|--|
| 1            | Obere Ge-<br>häusehälfte | 1. Schraube(A)x7  | 11-1 |  |
| 2            | Rückenbrett              | 1. Schraube (B)x14  | 11-2 |  |
| 3            | Sein-<br>tenwand         | 1. Schraube(C)x6  | 11-3 |  |
| 4            | CD-Einheit               | Das Zahnstangengetriebe drücken     Disoplatte (D1)x1     Buchse (D2)x3     Schraube (D3)x5 | 11-3 |  |
| 5            | CD-<br>Leiterplatte      | 1. Buchse (E)x5   | 11-3 |  |
| 6            | Tuner-<br>Leiterplatte   | 1. Buchse (F1)x4<br>2. Schraube (F2)x3  | 11-4 |  |

## $(\mathbf{F})$

## DÉMONTAGE

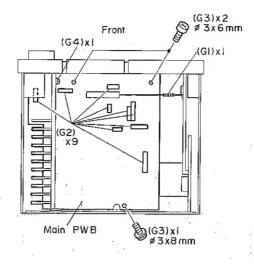
#### Précautions pour le démontage

Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.

- 1. Enlever la cassette/disque/compact disc de l'unité.
- 2. S'assurer de retirer la fiche d'alimentation secteur de la prise murale avant de démarrer le démontage de l'appareil.
- Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
- 4. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

### CD-302H

| ÉTAPE | DÉPOSEL              | PROCÉDÉ ::::   | FIGURE |
|-------|----------------------|--|--------|
| 1     | Coffret<br>supérieur | 1. Vis(A)x7  | 11-1   |
| 2     | Coffret<br>arrière   | 1. Vis(B)x14   | 11-2   |
| 3     | Panneau<br>latéral   | 1. Vis(C)x6  | 11-3   |
| 4     | Unité CD             | 1. Pousser l'engrenage à crémaillère 2. Panneau de disque. (D1)x1 3. Douille | 11-3   |
| 5     | PMI de CD            | 1. Douille(E)x5  | 11-3   |
| 6     | PMI de<br>tuner      | 1. Douille   | 11-4   |





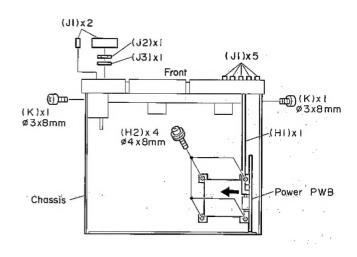


Figure 12-2

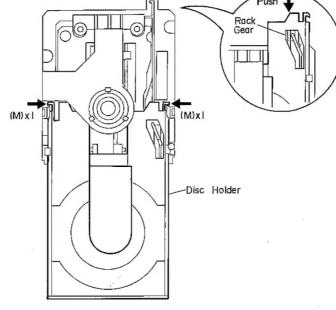
RP-302H/E

2

Turntable

Bottom Board

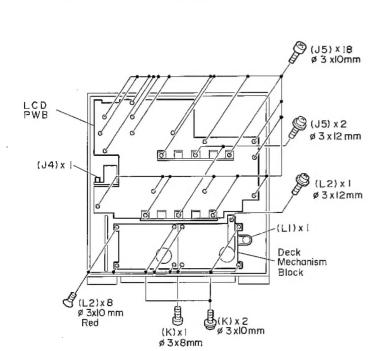
| STEP | REMOVAL                   | PROCEDURE                             | FIGURE        |  |
|------|---------------------------|---------------------------------------|---------------|--|
| 7    | Main PWB                  | 1. Spring                             | 12-1          |  |
| 8    | Power PWB                 | 1. Lever (H1)x1<br>2. Screw (H2)x4    | 12-2          |  |
| 9    | LCD PWB                   | 1. Knob                               | 12-2<br>13-1  |  |
| 10   | Chassis                   | 1. Screw (K)x5                        | 12-2,<br>13-1 |  |
| 11   | Deck Mech-<br>anism Block | 1. Belt (L1)x1<br>2. Screw (L2)x9     | 13-1          |  |
| 12   | Disc Holder               | 1. Push the Rack Gear<br>2. Hook(M)x2 | 13-2          |  |
| 13   | CD<br>Mechanism           | 1. Screw                              | 13-3          |  |



| 1. Dust Cover (P1)x1 | 14-1 | Figure |
|----------------------|------|--------|

14 - 1

14 - 2



2. Turntable Mat

3. Belt ..... (P2)x1

1. Screw.....(Q)x6

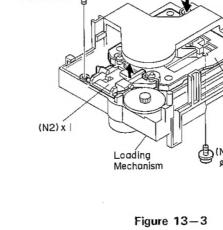
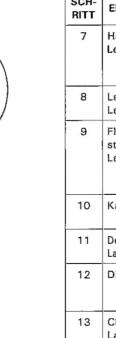
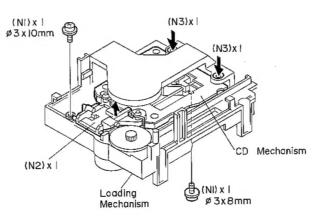


Figure 13-1



| ıre | 13-2 |  |  |
|-----|------|--|--|



## **D**

| SCH-<br>RITT | ENTFERNEN                                    | VERFAHREN  | ABBIL-<br>DUNG |
|--------------|--|--|----------------|
| 7            | Haupt-<br>Leiterplatte                       | 1. Feder   | 12-1           |
| 8            | Leistungs-<br>Leiterplatte                   | 1. Schalthebel (H1)x1 2. Schraube (H2)x4               | 12-2           |
| 9            | Flüssigkri-<br>stallanzeigen<br>Leiterplatte | 1. Knopf   | 12-2           |
| 10           | Karosserie                                   | 1. Schraube(K)x5                                       | 12-2,<br>13-1  |
| 11           | Deck-<br>Laufwerkblock                       | 1. Riemen (L1)x1<br>2. Schraube (L2)x9                 | 13-1           |
| 12           | Dischalter                                   | Das Zahnstangengetriebe     drücken     Haken(M)x2     | 13-2           |
| 13           | CD-<br>Lauf-<br>werkblock                    | 1. Schraube(N1)x2 2. Schalthebel(N2)x1 3. Kissen(N3)x2 | 13-3           |

## **(F)**

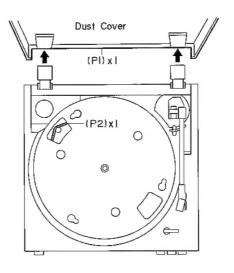
| ÉTAPE | DÉPOSEL                            | PROCÉDÉ  | FIGURE        |
|-------|------------------------------------|--|---------------|
| 7     | PMI de<br>principale               | 1. Ressort   | 12-1          |
| 8     | PMI de ali-<br>mentation           | 1. Levier(H1)x1<br>2. Vis(H2)x4  | 12-2          |
| 9     | PMI de LCD                         | 1. Bouton       (J1)x7         2. Écrou       (J2)x1         3. Rondelle       (J3)x1         4. Douille       (J4)x1         5. Vis       (J5)x20 | 12-2<br>13-1  |
| 10    | Châssis                            | 1. Vis(K)x5  | 12-2,<br>13-1 |
| 11    | Bloc du<br>mécanisme<br>de platine | 1. Courroir(L1)x1 2. Vis   | 13-1          |
| 12    | Porte-disque                       | Pousser l'engrenage à crémaillère     Crochet  | 13-2          |
| 13    | Mécanisme<br>CD                    | 1. Vis(N1)x2<br>2. Levier(N2)x1<br>3. Coussin(N3)x2  | 13-3          |

### RP-302H

| 1 | Plattenteller | Abdeckhaube (P1)x1     Plattentellermatte     Riemen (P2)x1 | 14-1<br>-<br>14-1 |
|---|---------------|---|-------------------|
| 2 | Bodenbrett    | 1. Schraube(Q)x6  | 14-2              |

### RP-302H

| 1 | Platean         | 1. Cachepoussière (P1)x1 2. Feuille du plateau 3. Courroie (P2)x1 | 14-1<br>-<br>14-1 |
|---|-----------------|---|-------------------|
| 2 | Plateau de base | 1. Vis(Q)x6   | 14-2              |



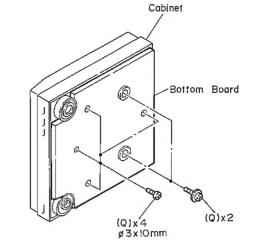


Figure 14-1

Figure 14-2

When replacing the pickup, refer to "Cares, when Handling Pickup Assembly".

- (a) After removing the CD mechanism according to the disassembling procedure, remove the screws and connectors in order of 1, 2 and 3, and replace the pickup.
- (b) Fit a new pickup in reverse order of disassembling. After fitting, lock it with the screw 2.
- (c) Connect the connector and lead wire as it was.
- (d): The laser power adjustment is not necessary owing to improvement of performance of pickup.

Note: When replacing the pickup do not apply force to the turntable of spin motor. Otherwise, the height of main chassis and turntable may be varied.

#### After replacing the pickup

This new mechanism has been newly designed to enhance remarkably its performance as compared to the former ones, so that there is no need to adjust pickup posture.

\* After mounting the pickup, apply voltage to the slide motor (M2), and ascertain that it runs at DC 1.5V or less.

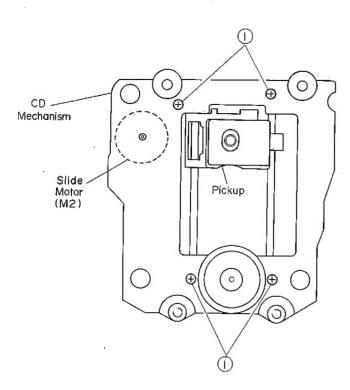


Figure 15-1

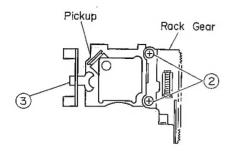


Figure 15-2

## FITTING OF CD MECHANISM

- 1. Remove cushion from CD mechanism and fit it to loading chassis.
- 2. Fit CD mechanism with cushion and insert shift lever.
- 3. Fix shift lever to loading chassis using screws.

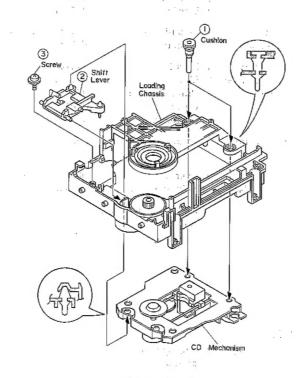


Figure 15-3

## FITTING OF DISC HOLDER

- Turn the rack gear in the arrow direction A. (This causes the disc lever to move to the direction B.)
- While keeping the rack gear in the direction A, force-fit the disc holder to the chassis.
- 3. Turning the rack gear in the arrow direction C lowers the disc holder, so that the disc holder is fixed.

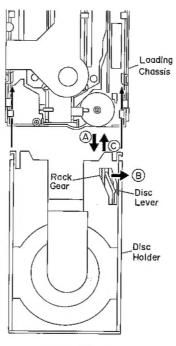


Figure 15-4

# AUSWECHSELN DES ABTASTERS

Beim Auswechseln des Abtasters auf den Abschnitt "Vorsichtsmaßnahmen beim Umgang mit der Abtastereinheit" Bezug nehmen.

- (a) Nach dem Entfernen des CD-Mechanismus (nach dem Ausbauverfahren) werden die Schrauben und Kopplung in der Reihenfolge 1, 2, 3 losgedreht und danach der Abtaster ausgewechselt.
- (b) Einen neuen Abtaster in der umgekehrten Reihenfolge zum Ausbau einsetzen. Nach dem Einsetzen des Abtasters muß dieser mit der Schraube 2 befestigt werden.
- (c) Eine Nachjustierung des Laserstrahls ist nicht erforderlich, da der Abtaster bereits werkseitig optimal eingestellt wurde.
- (d) Wegen der Verbesserung der Abstasterleistung ist die Laserleistungseinstellung nicht erforderlich.

Hinweis: Beim Auswechseln des Abtasters keinen Druck auf den Drehteller des Spinmotors ausüben. Die Höhe des Hauptgehäuses und des Drehtellers kann sich dadurch verändert.

#### Nach dem Auswechseln des Abtasters

Dieser neue Mechanismus wurde entwickelt, um seine Leistung, verglichen mit seinen Vorgängern, bemerkenswert zu steigern. Dadurch ist keine Nachstellung am Abstaster mehr erforderlich.

\* Nach dem anbringen des Abtasters Spannung an den Gleitmoter (M2) anlegen und sicherstellen, daß er bei 1,5V Gleichspannung oder weniger läuft.

## ANBRINGEN DES CD-MECHANISMUS

- Das Polster von CD-Mechanismus entfernen und es an das Ladechassis anbringen.
- Den CD-Mechanismus mit dem Polster anbringen und den Schalthebel einsetzen.
- Den Schalthebel mittels der Schrauben am Ladechassis befestigen.

## ANBRINGEN DES DISC-HALTERS

- Das Zahnstangengetriebe in Pfeilrichtung A drehen. (Dadurch wird der Disc-Hebel nach Richtung B bewegt.)
- Beim Behalten des Zahnstangengetriebes in Richtung A den Disc-Halter an das Chassis zwangsweise anbringen.
- Durch Drehen des Zahnstangengetriebes in Pfeilrichtung C wird der Disc-Halter gesenkt, so daß der Disc-Halter befestigt wird.

# F REMPLACEMENT DU PORTE-LASER

Pour le remplacement du porte-laser, se reporter à "Précaution lors de la manipulation du porte-laser".

- (a) Après avoir enlevé le mécanisme CD suivant le procédé de démontage, retirer les vis et douille dans l'ordre 1, 2 et 3, et remplacer le porte-laser.
- (b) Fixer un nouveau porte-laser en effectuant l'inverse de démontage. Puis verrouiller avec la vis 2.
- (c) Brancher le connecteur et le fil comme il l'était.
- (d) L'ajustement de la puissance laser n'est plus nécessaire grâce à l'amélioration des performances du porte-laser.

Note: Lors du remplacement, ne pas forcer le plateau du moteur "spin". La hauteur du châssis et du plateau risquent de changer.

### Après le remplacement du porte-laser

Ce nouveau mécanisme a été spécialement conçu pour améliorer considérablement les performances en comparaison des précédents. Il n'est donc plus nécessaire d'ajuster la position du porte-laser.

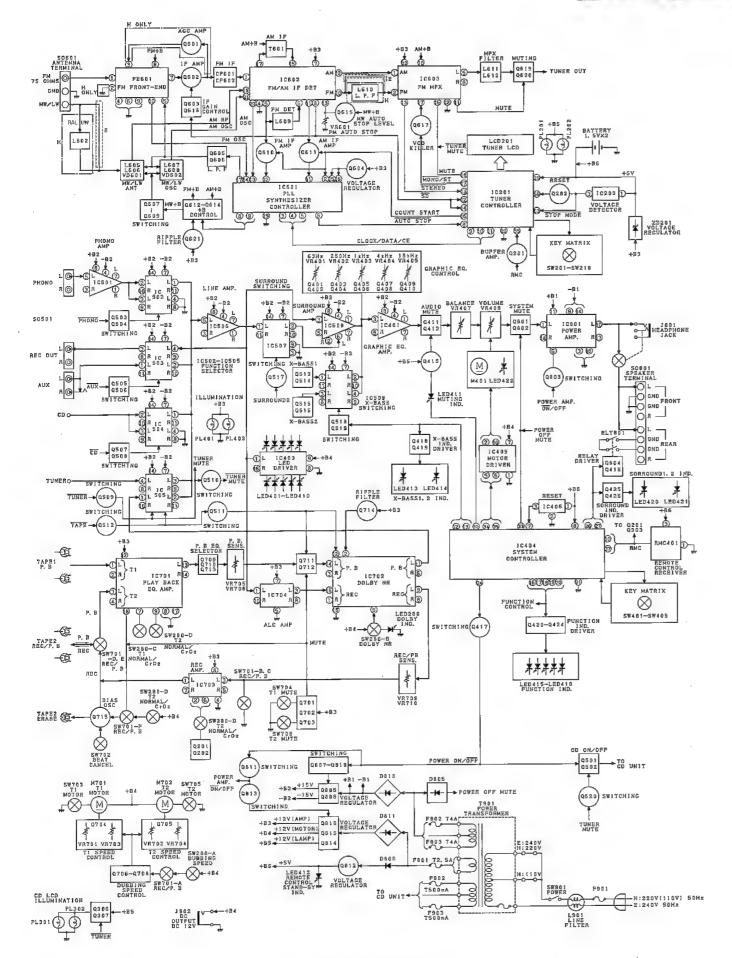
 Après le montage du porte-laser, appliquer une tension au moteur de glissement (M2) et vérifier que ce moteur fonctionne à moins de 1,5V.

## MONTAGE DU MÉCANISME CD

- Enlever le coussin du mécanisme CD et fixer ce dernier au châssis de chargement,
- 2. Joindre le mécanisme CD et le coussin, puis introduire le levier de déplacement.
- 3. Visser le levier de déplacement au châssis de chargement.

## MONTAGE DU PORTE-CD

- Tourner l'engrenage à crémaillère dans la direction indiquée par la flèche A. (Le levier de disque se déplace alors vers la direction B.)
- Tout en maintenant l'engrenage à crémaillère dans la direction A, fixer le porte-CD, avec force, au châssis.
- Le fait de tourner l'engrenage à crémaillère dans la direction C baisse le porte-CD, qui sera alors fixé en place.



VR2 VR3 TRACKING VR5
TRACKING FOCUS ERROR TRACKING
OFF SET OFF SET BALANCE GAIN PICKUP UNIT 3166~69 N, EH 16 x B 1 T RAM 102 SERVO/SIGNAL SERVO AMP CONTROL FOCUS COIL TRACKING **\_**000\_ /FOCUS TRACKING CO. 108 \_\_\_\_ LASER +7. 3V -7. 3V B48585B7 (5353741) 195 MOTOR DRIVER 109 PICKUP IN SW1 (1)(B) LOADING MOTOR MOTOR DRIVER IC10 (8)~(B) (4) D/A CONVERTER 103 OPEN/CLOSE BUFFER AMP BUFFER . AMP 1C5 (17~(1) (1)(1)(1) (2) +5V MUTING DRIVER LCD MICROCOMPUTER 0391 DISPLAY Q8, Q9, Q11 10301 CLOCK 12 63 RESET X301 60~62(2)~(4) SWITCHING ( q22 ) Q23 ) (5) (5) (7) 1012 REMOTE CONTROL DECORDER CLOCK Q303) X302 (Q20) 1C13 10303 SWITCHING (4) (1) 1011 5W301~ 5W309 +5V OPERATION KEY Q305 IC14 Q21 IC11 ~ IC14 CONSTANT VOLTAGE REGULATOR

Figure 17 BLOCK DIAGRAM (1/2)

Figure 18 BLOCK DIAGRAM (2/2)

## **FUNCTION TABLE OF IC**

#### RH-iX1619AFZZ

| Pin No. | Terminal Name | Input/output | Function   |
|---------|---------------|--------------|--|
| 1       | NC            | _            | Not used   |
| 2, 3    | P32, P31      | Output       | Key strobe signal  |
| 4       | P30           | Output       | Key strobe signal  |
| 5       | P03/S1        | Input        | Data input: connected to the pin 98 of IC1. Data is inputted according to SCK clock input when the pin 96 of IC1 is in high level. |
| 7       | P02/SO        | Output       | Data output: connected to the pin 99 of IC1. Data is output-ted when the pin 97 of IC1 is in high level.                           |
| ,       | POT/SCR       | Output       | Data output: clock signal necessary for data transfer is outputted.  |
| 8       | P63           | Output       | Data line switching signal   |
| 9       | P62           | Output       | Laser power control  |
| 10      | P61           | Input        | Remote control   |
| 11      | P60_          | Input        | Ground   |
| 12      | P53           | Output       | Remote control   |
| 13, 14  | P52, P51      | Output       | Tray motor. Open/close output  |
| 15      | P50           | Output       | Muting control output  |
| 16      | P43           | Input        | To sense whether switching is to CD or not.  |
| 17      | P42           | Input        | Pickup IN detection input  |
| 18      | P41           | Input        | Close tray switch input  |
| 19      | P40           | Input        | Open tray switch input   |
| 20, 21  | X1, X2        | Input        | Clock input  |
| 22      | Vss           | _            | Ground   |
| 23-25   | VLC3-VLC1     | _            | LCD power input terminal   |
| 26      | VDD           | _            | Power terminal   |
| 27      | сомз          | _            | Not used   |
| 28-30   | COM2-COM0     | Output       | LCD segment signal output  |
| 31      | S23           |              | Not used   |
| 32-54   | \$22-S0       | Output       | LCD segment signal output terminal   |
| 55      | INT1          | Input        | Data transfer request input  |
| 56      | RESET         | Înput        | Reset input  |
| 57      | CL1           | -            | For clock generation:<br>capacitor connecting<br>terminal  |
| 58      | VDD           |              | Not used   |
| 59      | CL2           | -            | For clock generation:<br>capacitor connecting<br>terminal  |
| 60-62   | P13-P11       | Input        | Key strobe signal  |
| 63      | P10/INTO      | Input        | Ground   |
| 64      | P33           | Output       | Not used   |

### VHiLC7880M/-1

| Pin No. | Terminal Name | Input/output | Function   |
|---------|---------------|--------------|--|
| 1       | CH1 OUT       | Output       | CH1 output terminal  |
| 2       | Vref H        | Input        | Reference völtage "H" input  |
| 3       | NC            |              | Not used   |
| 4       | Vdd           | _            | Power terminal +5 V  |
| 5       | WCLK2         | Input        | Word clock 2 input terminal: internal signal to latch digital audio data (CH1 data) is generated by using fall of WCLK2 when IF is in low level.                         |
| 6 .     | LRCK          | Input        | LR clock 2 input ter-<br>minal: CH1 and CH2<br>of input digital audio<br>data are indicated.   |
| 7       | WCLK1         | Input        | Word clock 1 input<br>terminal: internal sig-<br>nal to latch the digital<br>audio data (CH2 data)<br>is generated by using<br>fall of WCLK1 when<br>IF is in low level. |
| 8       | DATA          | Input        | Digital audio data in-<br>put terminal   |
| 9       | BCLK          | _            | Bit clock terminal   |
| 10      | Vdd           | _            | Power terminal,<br>+5 V  |
| 11      | TST OUT       | Output       | Output terminal for test: usually open   |
| 12, 13  | TST1, TST2    | Input        | Input terminal for test: usually used for grounding  |
| 14      | IF            | _            | Interface switching terminal   |
| 15      | GND           | _            | Ground   |
| 16      | Vref L        | Input        | Reference voltage  |
| 17      | GND           | _            | Ground   |
| 18, 19  | NC            | _            | Not used   |
| 20      | CH2 OUT       | Output       | CH2 output terminal  |

## (D)

| Stift<br>Nr. | Anschlußbe-<br>zeichung | Eingang/<br>Ausgang | Funktion  |
|--------------|-------------------------|---------------------|---|
| 1            | NC                      | -                   | Anschluß nicht belegt   |
| 2, 3         | P32, P31                | Ausgang             | Tastenmarkierungssignal   |
| 4            | P30                     | Ausgang             | Tastenmarkierungssignal   |
| 5            | P03/S1                  | Eingang             | Dateneingabe: An Stift 96 des IC1 angeschlossen. Die Daten werden gemäß dem SCK- Takteingang eingegeben, wenn der Stift 96 des IC1 hochpegelig ist. |
| 6            | P02/S0                  | Ausgang             | Datenausgabe: An Stif<br>99 des IC1 ange-<br>schlossen. Die Daten<br>werden ausgegeben,<br>wenn der Stift 99 des<br>IC1 hochpegelig ist.            |
| 7            | P01/SCK                 | Ausgang             | Datenausgabe: Taktsignal ist erforderlich, wenn Daten ausgegeben werden.  |
| 88           | P63                     | Ausgang             | Datenleitungs- Schaltsigna  |
| 9            | P62                     | Ausgang             | Laserstrahlsteuerung  |
| 10           | P61                     | Eingang             | Fernbedienung   |
| 11           | P60                     | Eingang             | Masse   |
| 12           | P53                     | Ausgang             | Fernbedienung   |
| 13, 14       | P52, P51                | Ausgang             | Schubladenmotor; Öffnen/<br>Schließen-Ausgangssignal  |
| 15           | P50                     | Ausgang             | Stummschaltungs-<br>Regelausgangssignal   |
| 16 P43       |                         | Eingang             | Sensorermittlung, ob<br>auf CD umgeschaltet<br>wird oder nicht.   |
| 17           | P42                     | Eingang             | Detektoreingangssig-<br>nal für Abtaster  |
| 18           | P41                     | Eingang             | Schubladenschließungs-<br>Schalteingangssignal  |
| 19           | P40                     | Eingang             | Schubladenöffnungs-<br>Schalteingangssignal   |
| 20, 21       | X1, X2                  | Eingang             | Takteingang   |
| 22           | Vss                     |                     | Masse   |
| 23-25        | VLC3-VLC1               | _                   | Flüssigkristallanzeige-<br>Spannungseingang-<br>sanschluß   |
| 26           | VDD                     |                     | Spannungsanschluß   |
| 27           | COM3                    | _                   | Anschluß nicht belegt   |
| 28-30        | COM2-COM0               | Ausgang             | Flüssigkristallanzeige-<br>Segmentsignalausgang   |
| 31           | S23                     | _                   | Anschluß nicht belegt   |
| 32-54        | S22-S0                  | Ausgang             | Flüssigkristallanzeige-<br>Segmentsignal-<br>Ausgangsanschluß   |
| 55           | INT1                    | Eingang             | Datentransfer-<br>Anforderungsein-<br>gangssignal   |
| 56           | RESET                   | Eingng              | Mullstellungs-<br>Eingangssignal  |
| 57           | CL1                     | -                   | Zur Takterzeung: Konden-<br>sator Verbindungsanschluß   |
| 58           | VDD                     | _                   | Anschluß nicht belegt   |
| 59           | CL2                     | _                   | Zur Takterzeung: Konden-<br>sator Verbindungsanschluß   |
| 0-62         | P13-P11                 | Eingang             | Tastenmarkierungssignal   |
| 33           | P10/INTO                | Eingang             | Masse   |
| 34           | P33                     | Ausgang             | Anschluß nicht belegt   |

## VHiLC7880M/-1

FUNKTIONTABELLE VOM INTEGRIERTEN SCHALTKREISES

| Stift<br>Nr.      | Anschlußbe-<br>zeichung | Eingang/<br>Ausgang | Funktion   |
|-------------------|-------------------------|---------------------|--|
| 1                 | CH1 OUT                 | Ausgang             | Kanal 1 Ausgangsan<br>schluß   |
| 2                 | Vref H                  | Eingang             | Bezugsspannung<br>"H"-Eingang  |
| 3                 | NC                      |                     | Anschluß nicht beleg   |
| 4                 | Vdd                     | 4                   | Spannungsanschluß,<br>+5V  |
| 5                 | WCLK2                   | Eingang             | Wort-Takt-2-Eingangsanschluß: Internes Signal, um Digital-Audiodaten (Kanal 1 - Daten) zu erzeugen, indem der Abfall des WCLK2-Signals benutzt wird, wenn die ZF einen niedrigen Signalpegel aufweist                                    |
| 6 LRCK            |                         | Eingang             | LR-Takt-2-Ein- gang-<br>sangsanschluß: Kana<br>1 und Kanal 2 der<br>Digital-Audio-<br>Eingangsdaten wird<br>angezeigt.   |
| 7 WCLK1           |                         | Eingang             | Wort-Takt-1-Ein-<br>gángsanschluß: Inter<br>nes Signal, um<br>Digital-Audiodaten<br>(Kanal 2 - Daten) zu<br>erzeugen, indem der<br>Abfall des<br>WCLK1-Signals be-<br>nutzt wird, wenn die<br>ZF einen niedrigen<br>Signalpegel aufweist |
| 8                 | DATA                    | Eingang             | Digital-Audioda- ten-<br>Eingangsanschluß  |
| 9                 | BCLK                    | _                   | Bittakt-Anschluß   |
| 10                | Vdd                     | _                   | Spannungsanschluß,<br>+5V  |
| 11                | TST OUT                 | Ausgang             | Test-Ausgangsan-<br>schluß: normalerwei-<br>se offen   |
| 12, 13 TST1, TST2 |                         | Eingang             | Test-Eingangsan-<br>schluß: Normalerwei-<br>se für die Erdung ver<br>wendet.   |
| 14                | IF                      | _                   | Interface-Schalt- an-<br>schluß  |
| 15                | GND                     | _                   | Masse  |
| 16                | Vref L                  | Eingang             | Bezugsspannung ''L'<br>Eingang   |
| 17                | GND                     | -                   | Masse  |
| 18, 19            | NC                      | _                   | Anschluß nicht beleg   |
| 20                | CH2 OUT                 | Ausgang             | Kanal 2 Ausgangsan-<br>schluß  |



## TABLE DE FONCTIONS DE CI

#### RH-iX1619AFZZ

| N° de<br>broche | Nom de borne | Entrée/sortie | Fonction   |
|-----------------|--------------|---------------|--|
| 1               | NC           | -             | Non utilisée   |
| 2, 3            | P32, P31     | Sortie        | Signal de touche de repère   |
| 4               | P30          | Sortie        | Signal de touche de repère   |
| 5               | P03/S1       | Entrée        | Entrée des données:<br>Connectée à la broche<br>98 de IC1. Les données<br>sont introduites selon<br>l'entrée d'horloge SCK<br>lorsque la broche 96 du<br>IC 1 est à haut niveau. |
| 6               | P02/S0       | Sortie        | Sortie des données: Con-<br>nectée à la broche 99 du<br>IC 1. Les données sor-<br>tent lorsque la broche<br>97 est à haut niveau.  |
| 7               | P01/SCK      | Sortie        | Sortie des données: Sor-<br>tie pour le signal d'hor-<br>loge nécessaire pour les<br>données de transfert.   |
| 8               | P63          | Sortie        | Signal de commutation de lígne des données   |
| 9               | P62          | Sortie        | Commande de la puissance laser   |
| 10              | P61          | Entrée        | Télécommande   |
| 11              | P60          | Entrée        | Terre  |
| 12              | P53          | Sortie        | Télécommande   |
| 13, 14          | P52, P51     | Sortie        | Moteur de plateau. Sor-<br>tie d'ouverture/fermeture   |
| 15              | P50          | Sortie        | Sortie de réglage<br>silencieux  |
| 16              | P43          | Sortie        | Détection de la com-<br>mutation en CD   |
| 17              | P42          | Entrée        | Entrée de détection<br>IN du porte-laser.  |
| 18              | P41          | Entrée        | Entrée du commutateur<br>de fermeture du tiroir  |
| 19              | P40          | Entrée        | Entrée du commutateur<br>d'ouverture de tiroir   |
| 20, 21          | X1, X2       | Entrée        | Entrée d'horloge   |
| 22              | Vss          | _             | Mise à la terre  |
| 23-25           | VLC3-VLC1    |               | Borne d'entrée d'ali-<br>mentation LCD   |
| 26              | VDD          |               | Borne d'alimentation   |
| 27              | сомз         | _             | Non utilisée   |
| 28-30           | COM2-COM0    | Sortie        | Sortie du signal du segment  |
| 31              | S23          | _             | Non utilisée   |
| 32-54           | S22-S0       | Sortie        | Borne de sortie du<br>signal du segment LCD  |
| 55              | INT1         | Entrée        | Entrée de demande de<br>transfert des données  |
| 56              | RESET        | Entrée        | Entrée de remise à zéro  |
| 57              | CL1          | _             | Pour la génération d'hor-<br>loge; Borne de con-<br>nexion du condensateur   |
| 58              | VDD          |               | Non utilisée   |
| 59              | CL2          | _             | Pour la génération d'hor-<br>loge; Borne de con-<br>nexion du condensateur   |
| 60-62           | P13-P11      | Entrée        | Signal de repère de touche   |
| 63              | P10-INTO     | Entrée        | Mise à la terre  |
| 64              | P33          | Sortie        | Non utilisée   |

## VHiLC7880M/-1

| Nº de<br>broche | Nom de borne | Entrée/sortie | Fonction  |
|-----------------|--------------|---------------|---|
| 1               | CH1 OUT      | Sortie        | Borne de sortie CH1   |
| 2               | Vref H       | Entrée        | Entrée d'une tension<br>''Н'' de référence  |
| 3               | NC           | _             | Non utilisée  |
| 4               | Vdd          | _             | Borne d'alimentation<br>+5 V  |
| 5               | WCLK2        | Entrée        | Borne d'entrée d'hor- loge de mot 2; Le signal interne pour basculer les données audionumériques (donnée CH1) est produit par descente de WCLK2 lorsque FIß est au niveau bas.                        |
| 6               | LRCK         | Entrée        | Borne d'entrée d'hor-<br>loge LR2: CH1 et<br>CH2 de donnée<br>audionumérique<br>d'entrée sont<br>affichés.  |
| 7               | WCLK1        | Entrée        | Borne d'entrée d'hor-<br>loge de mot 1; Le<br>signal interne pour<br>basculer les données<br>audionumériques<br>(donnée CH2) est<br>produit par descente<br>de WCLK1 lorsque Fl<br>est au niveau bas. |
| 8               | DATA         | Entrée        | Borne d'entrée de<br>donnée audionu-<br>mérique   |
| 9               | BCLK         | _             | Borne d'horloge de<br>bit   |
| 10              | Vdd          | _             | Borne d'alimentation,<br>+5 V   |
| 11              | TST OUT      | Sortie        | Borne d'entrée pour<br>essai: Normalement<br>ouverte  |
| 12, 13          | TST1, TST2   | Sortie        | Borne d'entrée pour<br>essai: Utilisée norma-<br>lement pour la mise à<br>la terre  |
| 14              | IF           |               | Borne de la commuta-<br>tion d'interface  |
| 15              | GND          |               | Mise à la terre   |
| 16              | Vref L       | Entrée        | Entrée d'une tension<br>de référence "L"  |
| 17              | GND          |               | Non utilisée  |
| 18, 19          | NC           |               | Non utilisée  |
| 20              | CH2 OUT      | Sortie        | Borne de sortie CH2   |



## RH-iX1644AFZZ

| Pin No. | Name  | Input/Output | Function  |   |
|---------|-------|--------------|---|---|
| 1       | F1    | Output       | Key matrix output   |   |
| 2       | F2    | Output       | Key matrix output   |   |
| 3       | F3    | Output       | Key matrix output   |   |
| 4       | XOUT  | Output       | Input/output terminal for built-in clock circuit. Connect the ceramic resona- |   |
|         |       |              | tor (2 MHz).  |   |
| 5       | XIN   | Input        | Input/output terminal for built-in clock circuit. Connect the ceramic resona- |   |
|         |       |              | tor (2 MHz).  |   |
| 6       | CE    | Input        | Connect to VDD.   |   |
| 7       | RESET | Input        | Reset input   | ļ |
| 8       | VDD   | _            | Connect to the power supply (+5 V).   | ١ |
| 9       | CNTR  | _            | Not used. Connect to GND.   | ı |
| 10      | INT   | Input        | Remote control input  | I |
| 11      | С     | _            | Not used. Open  | I |
| 12      | G0    | Output       | X-BASS control output   | I |
| 13      | G1    | Output       | X-BASS control output   | I |
| 14      | G2    | Output       | X-BASS control output   | i |
| 15      | G3    | Output       | Volume up/down speed control output   | İ |
| 16      | SO    | Output       | Function control output   | ĺ |
| 17      | S1    | Output       | Function control output   | ĺ |
| 18      | S2    | Output       | Function control output   | ı |
| 19      | S3    | Output       | Function control output   |   |
| 20      | CNVss |              | Connect to ground.  |   |
| 21      | Vss   | _            | Connect to ground.  |   |
| 22      | S4    | Output       | Function control output   | ĺ |
| 23      | S5    | Output       | Function control output   | I |
| 24      | S6    | Output       | POWER ON/OFF output   | I |
| 25      | S7    | Output       | X-BASS control output   | I |
| 26      | DO    | Output       | Surround control output   | l |
| 27      | D1    | Output       | Surround control output   | ļ |
| 28      | D2    | Output       | Surround control output   | ı |
| 29      | D3    | Output       | Tuner preset up output  | ı |
| 30      | D4    | Output       | Tuner preset down output  | ı |
| 31      | D5    | Output       | Surround output   | ı |
| 32      | D6    | Output       | Audio muting output   | ı |
| 33      | D7    | Output       | System muting output  | ı |
| 34      | D8    | Output       | Volume down output  |   |
| 35      | D9    | Output       | Volume up output  |   |
| 36      | D10   | Output       | Volume indicator flushing output  |   |
| 37      | D11   | Input        | Remote control input  |   |
| 38      | ко    | Input        | Key matrix input  |   |
| 39      | K1    | Input        | Key matrix input  |   |
| 40      | K2    | Input        | Key matrix input  |   |
| 41      | КЗ    | Input        | Key matrix input  |   |
| 42      | FO    | Output       | Key matrix output   |   |

## RH-iX1644AFZZ

| Stift Nr. | Bezeichnung | Eingang/Ausgang | Funktion  |
|-----------|-------------|-----------------|---|
| 1         | F1          | Ausgang         | Tastenmatrixausgang   |
| 2         | F2          | Ausgang         | Tastenmatrixausgang   |
| 3         | F3          | Ausgang         | Tastenmatrixausgang   |
| 4         | XOUT        | Ausgang         | Ein-/Ausgangsklemme für eingebaute Uhrschaltung. Anschluß des keram |
|           |             |                 | schen Resonators (2 MHz).   |
| 5         | XIN         | Eingang         | Ein-/Ausgangsklemme für eingebaute Uhrschaltung, Anschluß des keram |
|           |             |                 | schen Resonators (2 MHz).   |
| 6         | CE          | Eingang         | Anschluß an VDD.  |
| 7         | RESET       | Eingang         | Nullstellungseingang  |
| 8         | VDD         | _               | Anschluß an die Spannungsversorgung (+5 V).                         |
| 9         | CNTR        | _               | Nicht belegt. Anschluß an GND.                                      |
| 10        | INT         | Eingang         | Fernbedienungseingang   |
| 11        | С           | _               | Nicht belegt. Offen   |
| 12        | GO          | Ausgang         | X-BASS-Steuerungsausgang  |
| 13        | G1          | Ausgang         | X-BASS-Steuerungsausgang  |
| 14        | G2          | Ausgang         | X-BASS-Steuerungsausgang  |
| 15        | G3          | Ausgang         | Ausgang für schnelle Regelung der Lautstärkeerhöhung/ -verringerung |
| 16        | S0          | Ausgang         | Funktionssteuerungsausgang  |
| 17        | S1          | Ausgang         | Funktionssteuerungsausgang  |
| 18        | S2          | Ausgang         | Funktionssteuerungsausgang  |
| 19        | S3          | Ausgang         | Funktionssteuerungsausgang  |
| 20        | CNVss       | _               | Anschluß an Masse.  |
| 21        | Vss         | _               | Anschluß an Masse.  |
| 22        | S4          | Ausgang         | Funktionssteuerungsausgang  |
| 23        | S5          | Ausgang         | Funktionssteuerungsausgang  |
| 24        | S6          | Ausgang         | POWER-ON/OFF-Ausgang  |
| 25        | S7          | Ausgang         | X-BASS-Steuerungsausgang  |
| 26        | DO          | Ausgang         | Surround-Steuerungsausgang  |
| 27        | D1          | Ausgang         | Surround-Steuerungsausgang  |
| 28        | D2          | Ausgang         | Surround-Steuerungsausgang  |
| 29        | D3          | Ausgang         | Aufwärts-Tuner- Voreinstellungsausgang                              |
| 30        | D4          | Ausgang         | Abwärts-Tuner- Voreinstellungsaugang                                |
| 31        | D5          | Ausgang         | Surround-Ausgang  |
| 32        | D6          | Ausgang         | Stummschaltungsausgang  |
| 33        | D7          | Ausgang         | System-Stummschaltungsausgang                                       |
| 34        | D8          | Ausgang         | Lautstärkeverringerung-Ausgang                                      |
| 35        | D9          | Ausgang         | Lautstärkeerhöhung-Ausgang  |
| 36        | D10         | Ausgang         | Lautstärke-Blinkanzeige- Ausgang                                    |
| 37        | D11         | Eingang         | Fernbedienungseingang   |
| 38        | ко          | Eingang         | Tastenmatrixeingang   |
| 39        | K1          | Eingang         | Tastenmatrixeingang   |
| 40        | K2          | Eingang         | Tastenmatrixeingang   |
| 41        | К3          | Eingang         | Tastenmatrixeingang   |
| 42        | FO          | Ausgang         | Tastenmatrixausgang   |



## RH-iX1644AFZZ

| N° de broche Nom Entrée/Sortie |          | Entrée/Sortie | Fonction   | Fonction |  |
|--------------------------------|----------|---------------|--|----------|--|
| 1                              | F1       | Sortie        | Sortie de matrice de touche                                |          |  |
| 2                              | F2       | Sortie        | Sortie de matrice de touche                                |          |  |
| 3                              | F3       | Sortie        | Sortie de matrice de touche                                |          |  |
| 4                              | XOUT     | Sortie        | Borne d'entrée/sortie pour le circuit d'horloge incorporé. |          |  |
|                                |          |               | Connecter le résonateur céramique (2 MHz).                 |          |  |
| 5                              | XIN      | Entrée        | Borne d'entrée/sortie pour le circuit d'horloge incorporé. |          |  |
|                                |          |               | Connecter le résonateur céramique (2 MHz).                 |          |  |
| 6                              | CE       | Entrée        | Connecter à VDD.   |          |  |
| 7                              | RESET    | Entrée        | Entrée de remise à zéro                                    |          |  |
| 8                              | VDD      | _             | Connecter à l'alimentation (+5 V).                         |          |  |
| 9                              | CNTR     | _             | Non utilisée. Relier à la terre.                           |          |  |
| 10                             | INT      | Entrée        | Entrée de la télécommande                                  |          |  |
| 11                             | С        | _             | Non utilisée. Ouverte                                      |          |  |
| 12                             | GO       | Sortie        | Sortie de commande X-BASS                                  |          |  |
| 13                             | G1       | Sortie        | Sortie de commande X-BASS                                  | :        |  |
| 14                             | G2       | Sortie        | Sortie de commande X-BASS                                  |          |  |
| 15                             | G3       | Sortie        | Sortie de commande de vitesse du volume haut/bas           |          |  |
| 16                             | 50       | Sortie        | Sortie de commande de fonction                             |          |  |
| 17                             | S1       | Sortie        | Sortie de commande de fonction                             |          |  |
| 18                             | \$2      | Sortie        | Sortie de commande de fonction                             |          |  |
| 19                             | 53       | Sortie        | Sortie de commande de fonction                             |          |  |
| 20                             | CNVss    | _             | Connecter à la terre.                                      |          |  |
| 21                             | Vss      |               | Connecter à la terre.                                      |          |  |
| 22                             | S4       | Sortie        | Sortie de commande de fonction                             |          |  |
| 23                             | S5       | Sortie        | Sortie de commande de fonction                             |          |  |
| 24                             | S6       | Sortie        | Sortie de marche/arrêt                                     |          |  |
| 25                             | S7       | Sortie        | Sortie de commande X-BASS                                  |          |  |
| 26                             | DO.      | Sortie        | Sortie de commande surround                                |          |  |
| 27                             | D1       | Sortie        | Sortie de commande surround                                |          |  |
| 28                             | D2       | Sortie        | Sortie de commande surround                                |          |  |
| 29                             | D3       | Sortie        | Sortie de présélection du tuner haut                       |          |  |
| 30                             | D4       | Sortie        | Sortie de présélection du tuner bas                        |          |  |
| 31                             | D5       | Sortie        | Sortie surround  |          |  |
| 32                             | D6       | Sortie        | Sortie de réglage silencieux                               |          |  |
| 33                             | D7       | Sortie        | Sortie de réglage silencieux du système                    |          |  |
| 34                             | D8       | Sortie        | Sortie de volume bas                                       |          |  |
| 35                             | D9       | Sortie        | Sortie de volume haut                                      |          |  |
| 36                             | D10      | Sortie        | Sortie de clignotement du voyant de volume                 |          |  |
| 37                             | D10      | Entrée        | Entrée de la télécommande                                  |          |  |
| 38                             | KO       | Entrée        | Entrée de matrice de touche                                |          |  |
| 38                             | KU<br>K1 | Entrée        | Entrée de matrice de touche                                |          |  |
|                                | K1<br>K2 | Entrée        | Entrée de matrice de touche                                |          |  |
| 40                             |          | Entrée        | Entrée de matrice de touche                                |          |  |
| 41                             | K3       |               | Sortie de matrice de touche                                |          |  |
| 42                             | F0       | Sortie        | Softie de matrice de touche                                |          |  |

## RH-iX1646AFZZ

| Pin No. | Name    | Input/Output | and a Function                       | Maria Maria de la Companya del Companya de la Companya del Companya de la Company |
|---------|---------|--------------|--------------------------------------|--|
| 1       | NC      |              | Not used                             |  |
| 2       | P32     | Output       | Key matrix output                    |  |
| 3       | P31     | Output       | Key matrix output                    |  |
| 4       | P30     | Output 11    | Key matrix output                    |  |
| 5       | P03/SI  | Input        | Key matrix output                    |  |
| 6       | P02/S0  | Input        | Key matrix input                     |  |
| 7       | P01/SCK | Input        | Key matrix input                     |  |
| 8       | P63     | Input        | IF count stop signal input           |  |
| 9       | P62     | Output       | CE output to PLL                     |  |
| 10      | P61     | Oùtput       | DATA output to PLL                   |  |
| 11      | P60     | Output       | CLOCK output to PLL                  |  |
| 12      | P53     | Input        | F count start signal input           |  |
| 13      | P52     | Input        | FM stereo signal input               |  |
| 14      | P51     | Input        | SD signal input                      |  |
| 15      | P50     | Input        | System stop                          |  |
| 16      | P43     | Output       | Count start output                   |  |
| 17      | P42     | Output       | FM monaural/stereo signal output     |  |
|         |         |              | H: FM stereo                         |  |
|         |         | : **         | L: FM monaural                       |  |
| 18      | P41     | Output       | Muting signal output                 |  |
| 19      | P40     | Output       | LCD ON/OFF output                    |  |
| 20      | X2      | Output       | Not used: Open.                      |  |
| 21      | X1      | Input        | Not used Connect to Vss.             |  |
| 22      | Vss     |              | Ground                               |  |
| 23      | VLC3    | Input        | Power supply input for LCD           |  |
| 24      | VLC2    | Input        | Power supply input for LCD           |  |
| 25      | VLC1    | Input        | Power supply input for LCD           |  |
| 26      | VDD     | <u> </u>     | Connect to power supply              |  |
| 27      | COM3    | Output       | Not used. Open.                      |  |
| 28      | COM2    | Outpút       | Remote control signal output for LCD |  |
| 29      | COM1    | Output       | Remote control signal output for LCD |  |
| 30      | СОМО    | Output       | Remote control signal output for LCD |  |
| 31-54   | S23-S0  | Output       | LCD segment output                   |  |
| 55      | INT1    | Input        | Remote control input                 |  |
| 56      | RESET   | Input        | Reset input                          |  |
| 57      | CL1     | Input        | System clock input                   |  |
| 58      | VDD     | _            | Connect to power supply              |  |
| 59      | CL2     | Output       | System clock output                  |  |
| 60      | P13     | Input        | Key strobe input                     |  |
| 61      | P12     | Input        | Key strobe input                     |  |
| 62      | P11     | Input '      | Key strobe input                     |  |
| 63      | P10     | Input        | Stop mode signal input               |  |
| 64      | P33     | Output       | Key matrix output                    |  |

**(D)** 

## RH-iX1646AFZZ

| Stift Nr. | Bezeichnung | Eingang/Ausgang | Funktion   |
|-----------|-------------|-----------------|--|
| 1         | NC          | _               | Nicht belegt,  |
| 2         | P32         | Ausgang         | Tastenmatrixausgang  |
| 3         | P31         | Ausgang         | Tastenmatrixausgang  |
| 4         | P30         | Ausgang         | Tastenmatrixausgang  |
| 5         | P03/SI      | Eingang         | Tastenmatrixeingang  |
| 6         | P02/S0      | Eingang         | Tastenmatrixeingang  |
| 7         | P01/SCK     | Eingang         | Tastenmatrixeingang  |
| 8         | P63         | Eingang         | IF-Zählstoppsignaleingang  |
| 9         | P62         | Ausgang         | CE-Ausgang zu PLL  |
| 10        | P61         | Ausgang         | DATA-Ausgang zu PLL  |
| 11        | P60         | Ausgang         | CLOCK-Ausgang zu PLL   |
| 12        | P53         | Eingang         | IF-Zählstartsignaleingang  |
| 13        | P52         | Eingang         | UKW-Stereo-Signaleingang   |
| 14        | P51         | Eingang         | SD-Signaleingang   |
| 15        | P50         | Eingang : 1     | System-Stopp   |
| 16        | P43         | Ausgang         | Zählstartausgang   |
| 17        | P42         | Ausgang         | UKW-Mono/Stereo-Signalausgang  |
|           |             | 1.1             | H: UKW-Stereo  |
|           |             | , .             | L: UKW-Mono and the second sec |
| 18        | P41         | Ausgang         | Stummschaltung-Signalausgang   |
| 19        | P40         | Ausgang         | LCD-ON/OFF-Ausgang   |
| 20        | X2          | Ausgang         | Nicht belegt. Offen  |
| 21        | X1          | Eingang         | Nicht belegt. Anschluß an Vss.   |
| 22        | Vss         |                 | Masse  |
| 23        | VLC3        | Eingang         | Spannungsversorgung für LCD  |
| 24        | VLC2        | Eingang         | Spannungsversorgung für LCD  |
| 25        | VLC1        | Eingang         | Spannungsversorgung für LCD  |
| 26        | VDD         | - 1             | Anschluß an Spannungsversorgung  |
| 27        | сомз        | Ausgang         | Nicht belegt. Offen  |
| 28        | COM2        | Ausgang         | Fernbedienung-Signalausgang für LCD  |
| 29        | COM1        | Ausgang ·       | Fernbedienung-Signalausgang für LCD  |
| 30        | COMO        | Ausgang         | Fernbedienung-Signalausgang für LCD  |
| 31-54     | S23-S0      | Ausgang         | LCD-Segmentsignalausgang   |
| 55        | INT1        | Eingang         | Fernbedienungseingang  |
| 56        | RESET       | Eingang         | Nullstellungseingang   |
| 57        | CL1         | Eingang         | Systemtakteingang  |
| 58        | VDD         | -               | Anschluß an Spannungsversorgung  |
| 59        | CL2         | Ausgang         | Systemtaktausgang  |
| 60        | P13         | Eingang         | Tastenmarkierungssignaleingang   |
| 61        | P12         | Eingang         | Tastenmarkierungssignaleingang   |
| 62        | P11         | Eingang         | Tastenmarkierungssignaleingang   |
| 63        | P10         | Eingang         | Stopp- Betriebsartensignaleingang  |
| 64        | P33         | Ausgang         | Tastenmatrixausgang  |

## RH-iX1646AFZZ

| Nº de broche | Nom     | Entrée/sortie | Fonction  |  |
|--------------|---------|---------------|---|--|
| 1            | NC      |               | Non utilisée                                    |  |
| 2            | P32     | Sortie        | Sortie de matrice de touche                     |  |
| 3            | P31     | Sortie        | Sortie de matrice de touche                     |  |
| 4            | P30     | Sortie        | Sortie de matrice de touche                     |  |
| 5            | PO3/SI  | Entrée        | Entrée de matrice de touche                     |  |
| 6            | P02/S0  | Entrée        | Entrée de matrice de touche                     |  |
| 7            | P01/SCK | Entrée        | Entrée de matrice de touche                     |  |
| 8            | P63     | Entrée        | Entrée de signal d'arrêt pour le compte Fl      |  |
| 9            | P62     | Sortie        | Sortie CE pour PLL                              |  |
| 10           | P61     | Sortie        | Sortie de données pour PLL                      |  |
| 11           | P60     | Sortie        | Sortie d'horloge pour PLL                       |  |
| 12           | P53     | Entrée        | Entrée de signal de mise en marche du compte FI |  |
| 13           | P52     | Entrée        | Entrée de signal FM stéréo                      |  |
| 14           | P51     | Entrée        | Entrée de signal SD                             |  |
| 15           | P50     | Entrée        | Arrêt du système                                |  |
| 16           | P43     | Sortie        | Sortie de mise en marche du compte              |  |
| 17           | P42     | Sortie        | Sortie de signal FM monaural/stéréo             |  |
|              |         |               | H (haut): FM stéréo                             |  |
|              |         |               | L (bas): FM monaural                            |  |
| 18           | P41     | Sortie        | Sortie de signal de réglage silencieux          |  |
| 19           | P40     | Sortie        | Sortie de marche/arrêt LCD                      |  |
| 20           | X2      | Sortie        | Non utilisée. Ouverte                           |  |
| 21           | X1      | Entrée        | Non utilisée. Connecter à Vss.                  |  |
| 22           | Vss     | _             | Terre   |  |
| 23           | VLC3    | Entrée        | Entrée d'alimentation pour LCD                  |  |
| 24           | VLC2    | Entrée        | Entrée d'alimentation pour LCD                  |  |
| 25           | VLC1    | Entrée        | Entrée d'alimentation pour LCD                  |  |
| 26           | VDD     | _             | Connecter à l'alimentation.                     |  |
| 27           | сомз    | Sortie        | Non utilisée. Ouverte                           |  |
| 28           | COM2    | Sortie        | Sortie de signal de la télécommande pour LCD    |  |
| 29           | COM1    | Sortie        | Sortie de signal de la télécommande pour LCD    |  |
| 30           | COM0    | Sortie        | Sortie de signal de la télécommande pour LCD    |  |
| 31-54        | S23-S0  | Sortie        | Sortie du segment LCD                           |  |
| 55           | INT1    | Entrée        | Entrée de télécommande                          |  |
| 56           | RESET   | Entrée        | Entrée de remise à zéro                         |  |
| 57           | CL1     | Entrée        | Entrée d'horloge du système                     |  |
| 58           | VDD     | _             | Relier à l'alimentation.                        |  |
| 59           | CL2     | Sortie        | Sortie d'horloge du système                     |  |
| 60           | P13     | Entrée        | Entrée de repère de touche                      |  |
| 61           | P12     | Entrée        | Entrée de repère de touche                      |  |
| 62           | P11     | Entrée        | Entrée de repère de touche                      |  |
| 63           | P10     | Entrée        | Entrée de signal du mode d'arrêt                |  |
| 64           | P33     | Sortie        | Sortie de matrice de touche                     |  |



## VHiLR37632/-1

| Pin No.    | Terminal Name    | Input/output  | Function   |
|------------|------------------|---------------|--|
| 1          | LOIN             | Output        | Not used   |
| 2          | FCON             | Output        | Not used   |
| 3          | MUTE             | Output        | Not used   |
| 4          | SBCL             | Input         | Not used significant to the second significa |
| 5          | SCREQ            | Output        | Not used   |
| 6          | SDATA            | Output        | Not used   |
| 7          | SSYN             | Output no et  | Not used   |
| 8 — 15     | A0 — A7          | Output :      | Address signal, data signal and input control signal   |
| 16         | VDD              | _             | Power terminal   |
| 17, 18, 19 | A8, A9, WE       | Output :      | Address signal, data signal and input control signal   |
| 20         | OE               | Output        | Address signal, data signal and input control signal   |
| 21         | A10              | Output        | Address signal, data signal and input control signal   |
| 22 - 29    | D8 - D1          | Output        | Address signal, data signal and input control signal   |
| 30         | DEPH             | Output        | Deemphasis control signal  |
| 31, 32     | XIN, XOUT        | _             | Crystal oscillation terminal   |
| 33         | φ4               |               | Synchronizing signal output  |
| 34         | φ2               | <u>→</u> 1,4. | Not used   |
| 35         | SDO              | Output        | Synchronizing signal output  |
| 36         | SDSY             | Output        | Not used   |
| 37         | 882K             |               | Synchronizing signal output  |
| 38         | SWL              | Output        | Not used   |
| 39         | SWR              | Output        | Not used   |
| 40         | GND              | - Output      | Ground   |
| 41         | LROR             | Output        |  |
| 42         | T/N              | Input         | Synchronizing signal output  |
| 43         | 2C/OB            | Output        | Digital filtering ON/OFF switching input   |
| 44 - 59    | DA1 - DA16       |               | Setting of data format of 16-bit music signal  |
| 60 - 62    | TIN1 - TIN3      | Output        | Not used   |
| 63         | φS               |               | Test terminal  |
| 64         | φ3<br>DFCL       | Output        | System clock standard output   |
| 65         |                  | Output        | Not used   |
| 66         | CRCC             | Output        | Not used   |
| 67, 68     | VDD<br>TEST1 — 2 |               | Power terminal   |
|            |                  | _             | Test terminal  |
| 69         | C1FL             | _             | Test terminal  |
| 70         | DFL              | _             | Test terminal  |
| 71, 72     | C1F, C2F         | Output        | Error state output   |
| 73         | FCS              | Output        | Focus servo initial writing signal   |
| 74         | FZC              | Input         | Focus point indicating signal  |
| 75         | FRF              | Input         | Disk reflected signal  |
| 76         | HF               | Input         | HF envelope signal   |
| 77         | TER              | Input         | Tracking error signal  |
| 78         | TROF             | Output        | Tracking servo operating area switching signal   |
| 79         | TRGL             | Output        | Tracking servo gain switching signal   |
| 80         | TRHD             | Output        | Tracking error signal fevel hold signal  |
| 81, 82     | KP+, KP-         | Output        | Kick pulse signal to move pickup   |
| 83         | FEOF             | Output        | Tracking error signal stop   |
| 84, 85     | FEM +, —         | Output        | Field pulse signal to move pickup  |
| 86, 87     | MCON+, -         | Output        | Spin servo control signal  |
| 88         | FD               | Output        | VCO clock error output   |
| 89         | PD               | Output        | Phase comparator output  |
| 90         | GND              | -             | Ground   |
| 91, 92     | VCO, VCO         | Input         | Clock oscillation  |
| 93         | EFMO             | Output        | Auto-level slice   |
| 94         | EFMN             | Input/Output  | Auto-level slice   |
| 95         | EFMI             | Input         | Auto-level slice   |
| 96         | WQ               | Output        | Q code output  |
| 97         | R/W              | Input         | Q code input   |
| 98         | DOUT             | Output        | Q code output  |
| 99         | DIN              | Input         | Command data input   |
| 100        | SCK              | Input         | Clock input  |

D VHiLR37632/-1

| Stift Nr.    | Anschlußbezeichung | Eingang/Ausgang | Funktion  |
|--------------|--------------------|-----------------|---|
| 1            | LOIN               | Ausgang         | Auschluß nicht belegt   |
| 2            | FCON               | Ausgang         | Auschluß nicht belegt   |
| 3            | MUTE               | Ausgang         | Auschluß nicht belegt   |
| 4            | SBCL               | Eingang         | Auschluß nicht helegt   |
| 5            | SCREQ              | Ausgang         | Auschluß nicht belegt   |
| 6            | SDATA              | Ausgang         | Auschluß nicht belegt   |
| 7            | SSYN               | Ausgang         | Auschluß nicht belegt   |
| 8 — 15       | A0 - A7            | Ausgang         | Adressensignal, Datensignal und Eingangssteuersignal          |
| 16           | VDD                |                 | Spannungsanschluß   |
| 17, 18, 19   | A8, A9, WE         | Ausgang         | Adressensignal, Datensignal und Eingangssteuersignal          |
| 20           | OE                 | Ausgang         | Adressensignal, Datensignal und Eingangssteuersignal          |
| 21           | A10                | Ausgang         | Adressensignal, Datensignal und Eingangssteuersignal          |
| 22 - 29      | D8 - D1            | Ausgang         | Adressensignal, Datensignal und Eingangssteuersignal          |
| 30           | DEPH               | Ausgang         | Entzerrungssteuersignal                                       |
| 31, 32       | XIN, XOUT          | _               | Quarzschwingungsanschluß                                      |
| 33           | φ4                 | _               | Synchronsignalausgang   |
| 34           | φ2                 |                 | Anschluß nicht belegt   |
| 35           | SDO                | Ausgang         | Synchronsignalausgang   |
| 36           | SDSY               | Ausgang         | Anschluß nicht belegt   |
| 37           | 882K               | _               | Synchronsignalausgang   |
| 38           | SWL                | Ausgang         | Anschluß nicht belegt   |
| 39           | SWR                | Ausgang         | Anschluß nicht belegt   |
| 40           | GND                | - Adagang       | Masse   |
| 41           | LROR               | Ausgang         | Synchronsignalausgang   |
| 42           | T/N                | Eingang         | Digitalfilterungs-Ein/Aus-Schalteingangssignal                |
| 43           | 2C/OB              | Ausgang         | Einstellung des Datenformats für 16-Bit Musiksignal           |
| 44 – 59      | DA1 - DA16         | Ausgang         | Anschluß nicht belegt   |
| 60 - 62      | TIN1 - TIN3        | Adagang         | Testanschluß  |
| 63           | φS                 | Ausgang         | Systemtakt-Standardausgang                                    |
| 64           | DFCL               | Ausgang         | Anschluß nicht belegt   |
| 65           | CRCC               | Ausgang         | Anschluß nicht belegt   |
| 66           | VDD                | Ausgang _       | Spannungsanschluß   |
|              | TEST1 — 2          | _               | Testanschluß  |
| 67, 68<br>69 | C1FL               | _               | Testanschluß  |
| 70           | DFL                | _               | Testanschluß  |
|              | 1                  | 1               | Fehlerstatus-Ausgangssignal                                   |
| 71, 72       | C1F, C2F           | Ausgang         | Fokusservo-Anfangsschreibsignal                               |
| 73           | FCS                | Ausgang         | Brennpunkt-Anzeigesignal                                      |
| 74           | FZC                | Eingang         |   |
| 75<br>70     | FRF                | Eingang         | Disc-Reflexionssignal   |
| 76           | HF                 | Eingang         | HF-Hüllkurvensignal   |
| 77           | TER                | Eingang         | Spurfehlersignal Spurservo-Funktionsbereichsschaltsignal      |
| 78<br>70     | TROF               | Ausgang         |   |
| 79           | TRGL               | Ausgang         | Spurservo-Schaltverstärkungssignal                            |
| 80           | TRHD               | Ausgang         | Spurfehler-Pegelhaltesignal                                   |
| 81, 82       | KP+, KP-           | Ausgang         | Rückschlagimpulssignal für Abtasterbewegung                   |
| 83           | FEOF               | Ausgang         | Spurfehlersignalunterbrechung                                 |
| 84, 85       | FEM+, -            | Ausgang         | Feldimpuls zur Abtasterbewegung                               |
| 86, 87       | MCON+, -           | Ausgang         | Spinservo-Steuersignal  |
| 88           | FD                 | Ausgang         | Taktfehler-Ausgangssignal für spannungsgesteuerten Oszillator |
| 89           | PD                 | Ausgang         | Phasenkomparator-Ausgangssignal                               |
| 90           | GND                | _               | Masse   |
| 91, 92       | VCO, VCO           | Eingang         | Taktschwingung  |
| 93           | EFMO               | Ausgang         | Auto-Pegelbegrenzer   |
| 94           | EFMN               | Eingang/Ausgang | Auto-Pegelbegrenzer   |
| 95           | EFMI               | Eingang         | Auto-Pegelbegrenzer   |
| 96           | WQ                 | Ausgang         | Q-Kode-Ausgang  |
| 97           | R/W                | Eingang         | Q-Kode-Eingang  |
| 98           | DOUT               | Ausgang         | Q-Kode-Ausgang  |
| 99           | DIN                | Eingang         | Gemeinsamer Dateneingang                                      |
| 100          | SCK                | Eingang         | Takteingang   |

F) VHiLR37632/-1

| lo de broche | Nom de borne | Entrée/sortie | Fonction   |
|--------------|--------------|---------------|--|
| 1            | LOIN         | Sortie        | Non utilisée   |
| 2            | FCON         | Sortie        | Non utilisée   |
| 3            | MUTE         | Sortie        | Non utilisée   |
| 4            | SBCL         | Sortie        | Non utilisée   |
| 5            | SCREQ        | Sortie        | Non utilisée   |
| . 6          | SDATA        | Sortie        | Non utilisée   |
| 7            | SSYN         | Sortie        | Non utilisée   |
| 8 - 15       | A0 - A7      | Sortie        | Signaux d'adresse, signaux de données et signaux de commande d'entrée  |
| 16           | VDD          | _             | Borne d'alimentation   |
| 17, 18, 19   | A8, A9, WE   | Sortie        | Signaux d'adresse, signaux de données et signaux de commande d'entrée  |
| 20           | OE           | Sortie        | Signaux d'adresse, signaux de données et signaux de commande d'entrée  |
| 21           | A10          | Sortie        | Signaux d'adresse, signaux de données et signaux de commande d'entrée  |
| 22 - 29      | D8 - D1      | Sortie        | Signaux d'adresse, signaux de données et signaux de commande d'entrée  |
| 30           | DEPH         | Sortie        | Signaux de commande d'atténuation                                      |
| 31, 32       | XIN, XOUT    | _             | Borne d'oscillation à quartz   |
| 33           | φ4           |               | Sortie des signaux de synchronisation                                  |
| 34           | φ2           | _             | Non utilisée   |
| 35           | SDO          | Sortie        | Sortie des signaux de synchronisation                                  |
| 36           | SDSY         | Sortie        | Non utilisée   |
| 37           | 882K         | _             | Sortie des signaux de synchronisation                                  |
| 38           | SWL          | Sortie        | Non utilisée   |
| 39           | SWR          | Sortie        | Non utilisée   |
| 40           | GND          | -             | Mise à la terre  |
| 41           | LROR         | Sortie        | Sortie des signaux de synchronisation                                  |
| - 1          | T/N          | Entrée        | Entrée de la commutation marche/arrêt du filtrage numérique            |
| 42           | 2C/OB        | Sortie        | Réglage des signaux audio à 16 bits du format de données               |
| 43           | DA1 — DA16   | Sortie        | Non utilisée   |
| 44 - 59      | TIN1 - TIN3  |               | Borne d'essai  |
| 60 - 62      |              |               | Sortie standard d'horloge du système                                   |
| 63           | φS           | Sortie        | Non utilisée   |
| 64           | DFCL         | Sortie        | Non utilisée   |
| 65           | CRCC         | Sortie        |  |
| 66           | VDD          | _             | Borne d'alimentation   |
| 67, 68       | TEST1 — 2    | _             | Borne d'essai  |
| 69           | C1FL         | _             | Borne d'essai  |
| 70           | DFL          |               | Borne d'essai  |
| 71, 72       | C1F, C2F     | Sortie        | Sortie d'état d'erreur   |
| 73           | FCS          | Sortie        | Signaux d'éariture pour l'initialisation de l'asservissement du foyer  |
| 74           | FZC          | Entrée        | Signaux de repérage du foyer   |
| 75           | FRF          | Entrée        | Signaux de réflexion de disque   |
| 76           | HF           | Entrée        | Signaux d'enveloppe HF   |
| 77           | TER          | Entrée        | Signal d'erreur d'alignement   |
| 78           | TROF         | Sortie        | Signaux de commutation de la partie d'asservissement pour l'alignement |
| 79           | TRGL         | Sortie        | Signaux de commutation de gain pour l'asservissement d'alignement      |
| 80           | TRHD         | Sortie        | Signaux de maintien de niveau pour les signaux d'erreur d'alignement   |
| 81, 82       | KP+, KP-     | Sortie        | Signaux d'impulsion "kick" pour déplacer le porte-laser                |
| 83           | FEOF .       | Sortie        | Arrêt des signaux d'erreur d'alignement                                |
| 84, 85       | FEM +, -     | Sortie        | Signaux d'impulsion de champ pour déplacer le porte-laser              |
| 86, 87       | MCON+, -     | Sortie        | Signaux d'asservissement "spin"  |
| 88           | FD           | Sortie        | Sortie pour l'erreur d'horloge VCO                                     |
| 89           | PD           | Sortie        | Sortie pour le comparateur de phases                                   |
| 90           | GND          | _             | Mise à la terre  |
| 91, 92       | VCO, VCO     | Entrée        | Oscillation d'horloge  |
| 93           | EFMO         | Sortie        | Régulateur automatique du niveau                                       |
| 94           | EFMN         | Entrée/Sortie | Régulateur automatique du niveau                                       |
| 95           | EFMI         | Entrée        | Régulateur automatique du niveau                                       |
| 96           | WQ           | Sortie        | Sortie du code Q   |
| 97           | R/W          | Entrée        | Entrée du code Q   |
| 98           | DOUT         | Sortie        | Sortie du code Q   |
| 99           | DIN          | Entrée        | Entrée des données de commande   |
| 100          | SCK          | Entrée        | Entrée pour l'horloge  |

## **ADJUSTMENT**

As for adjusting method refer to the relevant explanation in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

#### CD-302H/E

#### **TUNER SECTION**

fL: Low-range frequency fH: High range frequency

#### · AM IF/RE

Signal generator: 400 Hz, 30%, AM modulated

| Digital generator. 400 Hz, 30%, Alvi modulated |   |   |   |  |  |  |
|--|---|---|---|--|--|--|
| Frequency                                      | Frequency<br>Display                              | Setting/<br>Adjusting Parts   | Instrument<br>Connection  |  |  |  |
| 450 kHz  | 1,611 kHz   | T601  | *1  |  |  |  |
| _  | 522 kHz   | L607 (fL):<br>1.1 ± 0.1V  | *2  |  |  |  |
| 603 kHz  | 603 kHz   | L605 (fL)   |   |  |  |  |
| 1,404 kHz                                      | 1,404 kHz   | TC601 (fH)  | * 1   |  |  |  |
| _  | 153 kHz   | L608 (fL):<br>1.5 ± 0.1V  | *2  |  |  |  |
| 162 kHz  | 162 kHz   | L606 (fL)   |   |  |  |  |
| 261 kHz  | 261 kHz   | TC602 (fH)  | *1  |  |  |  |
|  | Frequency 450 kHz  - 603 kHz 1,404 kHz  - 162 kHz | Frequency Display  450 kHz 1,611 kHz  - 522 kHz  603 kHz 603 kHz 1,404 kHz 1,404 kHz  - 153 kHz 162 kHz 162 kHz | Frequency         Frequency Display         Setting/Adjusting Parts           450 kHz         1,611 kHz         T601           -         522 kHz         L607 (fL): 1.1 ± 0.1V           603 kHz         603 kHz         L605 (fL)           1,404 kHz         1,404 kHz         TC601 (fH)           -         153 kHz         L608 (fL): 1.5 ± 0.1V           162 kHz         162 kHz         L606 (fL) |  |  |  |

\*1,Input: Antenna Output: TP602 \*2,Input: Antenna Output: TP603

## output: 11 o

## · FM

- Description of the "FM IF Adjustment: is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
- 2: The parts in the FM front end section are prepared in a complete unit, so you can't obtain each part individually.

#### Detection/Distortion

Signal generator: 1 kHz, 40 kHz dev., FM modulated

| - gran generator. I tally 10 kills dovi, 1 ivi inoquiated |                      |                    |  |  |  |  |
|---|----------------------|--------------------|--|--|--|--|
| Frequency   | Frequency<br>Display | Adjusting<br>Parts | Instrument<br>Connection               |  |  |  |
| 10.7 MHz  | 108 MHz              | L609               | Input: Antenna<br>Output: IC602 10 Pin |  |  |  |
| 98.00 MHz<br>(60 dB)                                      | 98.00 MHz            | L609*              | Input: Antenna<br>Output: TP601 ①, ②   |  |  |  |

\* Adjust the L609 so that voltmeter reads 0  $\pm$  50 mV.

#### · FM Auto Stop Level

Signal generator: 1 kHz, 40 kHz dev., FM modulated

| Frequency            | Frequency | Adjusting | Instrument                                    |
|----------------------|-----------|-----------|---|
|                      | Display   | Parts     | Connection                                    |
| 98.00 MHz<br>(25 dB) | 98.00 MHz | VR601     | Input: Antenna<br>Output: Speaker<br>terminal |

\* Adjust so that an output signal appears

#### TAPE SECTION

· Driving Force check

| Torque Meter  | Specified value |
|---------------|-----------------|
| Play: TW-2412 | Over 150 g      |

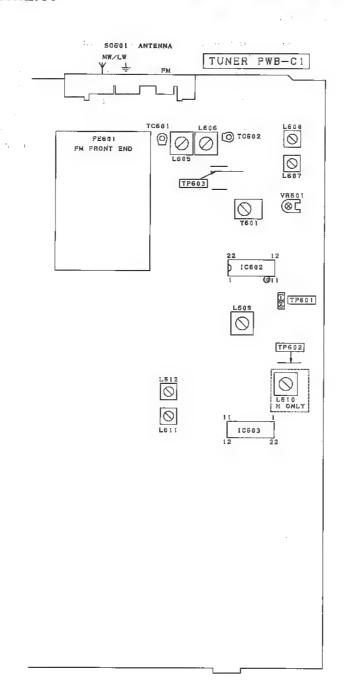


Figure 31 ADJUSTMENT POINTS

## (D) EINSTELLUNG

Einzelheiten über das Einstellverfahren sind in den enstsprelchenden Erklärungen der Service-Anleitung "EINSTELLVER-FAHREN FÜR AUDIOPRODUKTE" angegeben.

#### CD-302H

#### TUNER-TEIL

fL: Niedriger Frequenzbereich fH: Hoher Frequenzbereich

#### · AM, ZF/HF

Meßsender: 400 Hz, 30%, AM-Modulation

| Prüfstufe               | Frequenz  | Frequen-<br>zanzeige | Regel-/<br>Einstellteile | Gerätan-<br>schluß |
|-------------------------|-----------|----------------------|--------------------------|--------------------|
| ZF                      | 450 kHz   | 1611 kHz             | T601                     | *1                 |
| MW-Frequenz-<br>bereich | -         | 522 kHz              | L607 (fL):<br>1.1 ± 0.1V | *2                 |
| MW-                     | 603 kHz   | 603 kHz              | L605 (fL)                | *1                 |
| Gleichlauf              | 1 404 kHz | 1 404 kHz            | TC601 (fH)               | 1                  |
| LW-Frequenz-<br>bereich | _         | 153 kHz              | L608 (fL):<br>1.5 ± 0.1V | *2                 |
| LW-                     | 162 kHz   | 162 kHz              | L606 (fL)                | *1                 |
| Gleichlauf              | 261 kHz   | 261 kHz              | TC602 (fH)               | '                  |

\*1,Eingabe: Antenne Ausgabe: TP602 \*2,Eingabe: Antenne Ausgabe: TP603

#### · UKW

Zur Beachtung:

- Beschreibung der "UKW-ZF-Einstellung: ist in dieser Anleitung nicht gebracht. Weil die ZF-Spule in UKW-Eingangsstufenteil in der Fabrik schon gut eingestellt worden ist, ist es nicht erforderlich, diese an Ort und Stelle ferner einzustellen.
- Die Einstellung ist auch bei der Auswechslung der UKW-Eingangsstufeneinheit nicht benötigt.
- Die Teile im UKW-Eingangsstufenteil sind in einer kompletten Einheit vorbereitet. Sie können jeden Teil einzeln nicht erhalten.

#### · Nachweis/Verzerrung

Meßsender: 1 kHz, 40 kHz Hub, UKW-Modulation

| Frequenz             | Frequen-<br>zanzeige | Einstellteile | Gerätanschluß                                |  |
|----------------------|----------------------|---------------|--|--|
| 10.7 MHz             | 108 MHz              | L609          | Eingabe: Antenne<br>Ausgabe: IC602<br>10 Pin |  |
| 98,00 MHz<br>(60 dB) | 98,00 MHz            | L609*         | Eingabe: Antenne<br>Ausgabe: TP601<br>①, ②   |  |

\* Den L609 so einstellen, daß der Spannungsmesser 0  $\pm$  50 mV anzeigt.

#### · UKW-Abschaltautomatikpegels

Meßsender: 1 kHz, 40 kHz Hub, UKW-Modulation

| Frequenz             | Frequen-<br>zanzeige | Einstellteile | Gerätanschluß  |
|----------------------|----------------------|---------------|--|
| 98,00 MHz<br>(25 dB) | 98,00 MHz            | VR601         | Eingabe: Antenne<br>Ausgabe: Laut-<br>sprecherklemme |

\* So einstellen, daß ein Ausgangssignal auftritt.

#### **BAND-TEIL**

#### · Überprüfung der Antriebskraft

| Drehmoment messer   | Vorgeschriebener Wert |
|---------------------|-----------------------|
| Wiedergabe: TW-2412 | Mehr als 150 g        |

## (F

## RÉGLAGE

Pour la méthode de réglage, se reporter aux indications concernées dans le Manuel de service "PROCEDES DE REGLAGE DES PRODUITS ACOUSTIQUES".

### CD-302H

#### **PARTIE TUNER**

fL: basse fréquence fH: haute fréquence

#### · FI/RF AM (PO)

Générateur de signal: 400 Hz, 30%, modulé en AM.

| Etage<br>d'essai          | Fréquence | Affichage de<br>fréquence | Organes de<br>réglage/ajustement | Connexion des<br>instruments |
|---------------------------|-----------|---------------------------|----------------------------------|------------------------------|
| FI                        | 450 kHz   | 1611 kHz                  | T601                             | *1                           |
| Couverture de gamme PO    | _         | 522 kHz                   | L607 (fL):<br>1,1 ± 0,1V         | *2                           |
| Pistage PO                | 603 kHz   | 603 kHz                   | L605 (fL)                        | *1                           |
| ristage FO                | 1404 kHz  | 1404 kHz                  | TC601 (fH)                       |                              |
| Couverture de<br>gamme PO |           | 153 kHz                   | L608 (fL): .<br>1,5 ± 0,1V       | *2                           |
| Pistage PO                | 162 kHz   | 162 kHz                   | L606 (fL)                        | *1                           |
| 1 satuge r O              | 261 kHz   | 261 kHz                   | TC602 (fH)                       |                              |

\*1,Entrée: Antenne Sortie: TP602

\*2,Entrée: Antenne Sortie: TP603

#### · FM

Note:

- La description du "Réglage FM IF" ne se trouve pas dans ce Manuel.
  Car la bobine IF dans la section de l'extrémité avant FM a été si
  bien réglée à l'usine qu'elle ne nécessite un réglage ultérieur. Il n'est
  donc pas nécessaire de la régler même si l'on remplace l'ensemble
  de l'extrémité avant FM.
- Les pièces utilisées dans la section de l'extémité avant FM sont préparées dans une unité complète, aussi on ne peut pas les obtenir séparément.

#### Détection/Distorsion

Générateur de signal: 1 kHz, déviation de 40 kHz modulé en FM.

| Fréquence            | Affichage de<br>fréquence | Organes de réglage | Connexion des instruments               |
|----------------------|---------------------------|--------------------|---|
| 10,7 MHz             | 108 MHz                   | L609               | Entrée: Antenne<br>Sortie: IC602 10 Pin |
| 98,00 MHz<br>(60 dB) | 98,00 MHz                 | L609*              | Entrée: Antenne<br>Sortie: TP601 ①, ②   |

<sup>\*</sup> Régler L609 de sorte que le voltmètre indique 0 ± 50 mV.

#### · Niveau d'arrêt automatique FM

Générateur de signal: 1 kHz, déviation de 40 kHz modulé en FM.

| Fréquence            | Affichage de<br>fréquence | Organes de réglage | Connexion des instruments                           |
|----------------------|---------------------------|--------------------|---|
| 98,00 MHz<br>(25 dB) | 98,00 MHz                 | VR601              | Entrée: Antenne<br>Sortie: Borne du<br>haut-parleur |

<sup>\*</sup> Régler pour qu'un signal de sorte disparaisse.

## PARTIE MAGNETOPHONE

#### · Vérification de la force d'entraînement

| Compteur de couple | Valeur spécifée |  |
|--------------------|-----------------|--|
| Lecture: TW-2412   | Plus de 150 g   |  |

## · Torque Check

| Torque Meter          | Specified value |               |  |
|-----------------------|-----------------|---------------|--|
|                       | Tape 1          | Tape 2        |  |
|                       | 35 - 60 g.cm    | 35 — 60 g.cm  |  |
| Fast forward: TW-2231 | 85 - 130 g.cm   | 85 — 130 g.cm |  |
| Rewind: TW-2231       | 85 - 130 g.cm   | 85 - 130 g.cm |  |

#### · Head Azimuth

| Test Tape | Instrument Connection |
|-----------|-----------------------|
| MTT-114   | Output: TP702 ① (L)   |
|           | TP702 (5) (R)         |

#### · Tape Speed

Adjust at first the normal speed.

| Adjust at first the normal speed. |           |                    |                 |                          |  |
|-----------------------------------|-----------|--------------------|-----------------|--------------------------|--|
|                                   | Test Tape | Adjusting<br>Point | Specified value | Instrument<br>Connection |  |
| High speed                        | MTT-111   | Tape 1:<br>VR701   | 6,000 ± 30 Hz   | Output:<br>TP702 ① (L)   |  |
|                                   |           | Tape 2:<br>VR702   | 6,000 ± 30 Hz   | TP702 (B) (R)            |  |
| Normal<br>speed                   | MTT-111   | Tape 1:<br>VR703   | 3,000 ± 15 Hz   |                          |  |
|                                   |           | Tape 2:<br>VR704   | 3,000 ± 15 Hz   |                          |  |

<sup>\*</sup> Short TP701 (1) and TP701 (2) when performing the high speed adjustment.

#### **DECK SECTION**

| Position of each switch or control |        |  |
|------------------------------------|--------|--|
| Volume                             | Min    |  |
| Balance                            | Center |  |
| Graphic equalizer                  | Center |  |
| Function selector switch           | Aux    |  |
| Dolby NR switch                    | OFF    |  |
| Tape selector switch               | Normal |  |

## · Tape 1 Playback Amplifier Sensitivity

| Test Tape | Adjusting<br>Point   | Specified value       | Instrument<br>Connection   |
|-----------|----------------------|-----------------------|----------------------------|
| MTT-150   | L: VR705<br>R: VR706 | Normal: 650 mV ± 2 dB | TP702 ① (L)<br>TP702 ⑤ (R) |

#### · Record/Playback Sensitivity

| Test Tape | Adjusting<br>Point   | Specified value | Instrument<br>Connection              |
|-----------|----------------------|-----------------|---------------------------------------|
| MTT-502   | Frequency oscillator | 410 mV          | Input: SO501<br>(AUX)                 |
|           | L: VR709<br>R: VR710 | 460 mV ± 1 dB   | Output:<br>TP702 ① (L)<br>TP702 ⑤ (R) |

#### · Bias Current

| Adjusting Point      | Specified value                      | Instrument<br>Connection |
|----------------------|--------------------------------------|--------------------------|
| L: VR707<br>R: VR708 | Normal: 13 ± 2 mV<br>CrO2: 20 ± 3 mV | CNP704 ①/③               |

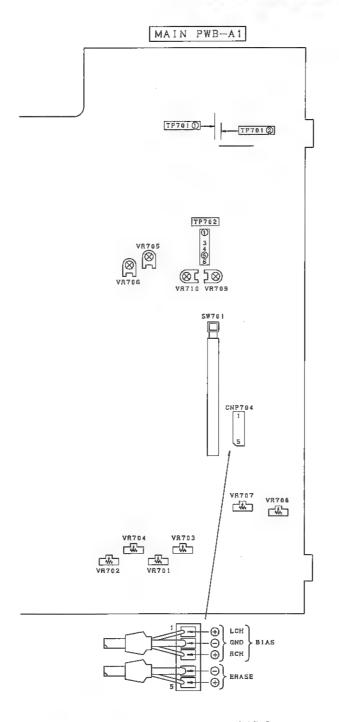


Figure 33-1 ADJUSTMENT POINTS

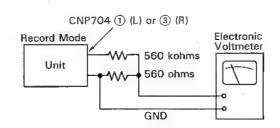


Figure 33-2 BIAS CURRENT

## (D)

#### · Überprüfung des Drehmoments

| <b>B</b> .              | Vorgeschriebener Wert |               |  |
|-------------------------|-----------------------|---------------|--|
| Drehmoment messer       | Band 1                | Band 2        |  |
| Wiedergabe: TW-2111     | 35 - 60 g.cm          | 35 - 60 g.cm  |  |
| Schnellvorlauf: TW-2231 | 85 - 130 g.cm         | 85 - 130 g.cm |  |
| Rückspulung: TW-2231    | 85 - 130 g.cm         | 85 - 130 g.cm |  |

#### · Kopfazimut

| Instrumentenanschluß                |  |
|-------------------------------------|--|
| Ausgang: TP702 ① (L)<br>TP702 ⑤ (R) |  |
|                                     |  |

#### · Bandgeschwindigkeit

Zuerst die normale Geschwindigkeit einstellen.

|                      | Testband | Ein-<br>stellpunkt | Vorgeschrie-<br>bener Wert | Instrumente-<br>nanschluß |
|----------------------|----------|--------------------|----------------------------|---------------------------|
| Hohe Ge-<br>schwin-  | MTT-111  | Band 1:<br>VR701   | 6000 ± 30 Hz               | Ausgang:<br>TP702 ① (L)   |
| digkeit<br>*         |          | Band 2:<br>VR702   | 6000 ± 30 Hz               | TP702 (B(R)               |
| Normale<br>Geschwin- | MTT-111  | Band 1:<br>VR703   | 3000 ± 15 Hz               |                           |
| digkeit              |          | Band 2:<br>VR704   | 3000 ± 15 Hz               |                           |

Bei der Einstellung der hohen Geschwindigkeit TP701 ① und TP701
 ② Kurzchlie Ben.

### **DECK-TEIL**

| Lautstärke steller        | Min    |
|---------------------------|--------|
| Balancesteller            | Mittig |
| Graphic Equalizer-Steller | Mittig |
| Funktionswahlschalter     | Aux    |
| Dolby-NR-Schalter         | Aus    |
| Bandsortenwahlschalter    | Normal |

# · Empfindlichkeit des Wiedergabe-Verstärkers vom Cassettenteil 1

| Testband | Ein-<br>stellpunkt   | Vorgeschriebener<br>Wert | Instrumente-<br>nanschluß |
|----------|----------------------|--------------------------|---------------------------|
| MTT-150  | L: VR705<br>R: VR706 | Normal: 650 mV ± 2 dB    | TP702 ① (L)<br>TP702 ⑤(R) |

#### · Aufnahme-/Wiedergabeempfindlichkeit

|          | •                       |                          |  |
|----------|-------------------------|--------------------------|--|
| Testband | Ein-<br>stellpunkt      | Vorgeschriebener<br>Wert | Instrumente-<br>nanschluß              |
| MTT-502  | Frequenz-<br>oscillator | 410 mV                   | Eingang:<br>S0501 (AUX)                |
|          | L: VR709<br>R: VR710    | 460 mV ± 1 dB            | Ausgang:<br>TP702 ① (L)<br>TP702 ⑤ (R) |

## Vormagnetisierungsstroms

| Einstellpunkt        | Vorgeschriebener<br>Wert             | Instrumentenan-<br>schluß |
|----------------------|--------------------------------------|---------------------------|
| L: VR707<br>R: VR708 | Normal: 13 ± 2 mV<br>CrO2: 20 ± 3 mV | CNP704 ①/③                |

## (F)

### · Vérification du couple

| Constant de couple     | Valeur spécifée |               |
|------------------------|-----------------|---------------|
| Compteur de couple     | Band 1          | Band 2        |
| Lecture: TW-2111       | 35 - 60 g.cm    | 35 — 60 g.cm  |
| Avance rapide: TW-2231 | 85 — 130 g.cm   | 85 — 130 g.cm |
| Rebobinage: TW-2231    | 85 — 130 g.cm   | 85 — 130 g.cm |

#### · Azimut de la tête

| Bande d'essai | Instrument de connexion |
|---------------|-------------------------|
| MTT-114       | Sortie: TP702 ① (L)     |
|               | TP702 (5) (R)           |

#### · Vitesse de défilement

Régler d'abord l'appareil sur la vitesse normale.

|                    | Bande<br>d'essai | Point de réglage  | Valeur<br>spécifiée | Instrument de connexion |
|--------------------|------------------|-------------------|---------------------|-------------------------|
| Grande<br>vitesse  | MTT-111          | Bande 1:<br>VR701 | 6.000 ± 30 Hz       | Sorte:<br>TP702 ① (L)   |
| *                  |                  | Bande 2:<br>VR702 | 6.000 ± 30 Hz       | TP702 (5) (R            |
| Vitesse<br>normale | MTT-111          | Bande 1:<br>VR703 | 3.000 ± 15 Hz       |                         |
|                    |                  | Bande 2:<br>VR704 | 3.000 ± 15 Hz       |                         |

Mettre la platine TP701 ① à la TP701 ② terre lors du réglage à vittesse élevé.

## PARTIE PLATINE

| Position de chaque commutateur ou chaq | ue commande |
|--|-------------|
| Commande de Volume                     | Min         |
| Commande d'équilibrage                 | Centre      |
| Commande d'égaliseur graphicque        | Centre      |
| Communtateur de sélection de fonction  | Aux         |
| Commutateur Dolby NR                   | Coupé       |
| Commutateur de sélection de bande      | Normal      |

#### · Sensibilité de l'amplificateur de lecture pour Tape 1

| Bande<br>d'essai | Point de réglage     | Valeur spécifiée      | Instrument de connexion    |
|------------------|----------------------|-----------------------|----------------------------|
| MTT-150          | L: VR705<br>R: VR706 | Normal: 650 mV ± 2 dB | TP702 ① (L)<br>TP702 ⑤ (R) |

#### · Sensibilité de lecture/enregistrement

| Bande<br>d'essai | Point de réglage       | Valeur spécifiée | Instrument de connexion               |
|------------------|------------------------|------------------|---------------------------------------|
| MTT-502          | Oscillater à tréquence | 410 mV           | Entrée:<br>SO501 (AUX)                |
|                  | L: VR709<br>R: VR710   | 460 mV ± 1 dB    | Sortie:<br>TP702 ① (L)<br>TP702 ⑤ (R) |

#### Courant de polarisation

| Point de réglage     | Valeur spécifiée                     | Instrument de con-<br>nexion |
|----------------------|--------------------------------------|------------------------------|
| L: VR707<br>R: VR708 | Normal: 13 ± 2 mV<br>CrO2: 20 ± 3 mV | CNP 704 ①/③                  |

## **CD SECTION**

#### 1. Preparation for Adjustment

When adjusting, be sure to refer to Service Manual "AD-JUSTMENT PROCEDURES OF AUDIO PRODUCTS".

·Test mode of control microcomputer

Depressing the REPEAT button and CALL button, turn on the power switch.

#### 2. VCO Free-Run Frequency

| Adjusting Point | Specified value    | Instrument Connection             |
|-----------------|--------------------|-----------------------------------|
| L1              | 4,300 kHz ± 15 kHz | Pin 63 and Pin 40<br>(GND) of IC1 |

#### 3. Servo Unit

The procedure of adjustment differs from that stated in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

Follow the procedure stated below.

#### Focus Offset

| Adjusting<br>Point | Specified value | Instrument Connection         |
|--------------------|-----------------|-------------------------------|
| VR3                | 0 ± 50 mV       | Pin 2 and pin 1 (GND) of CNP2 |

#### Tracking Offset

| Adjusting<br>Point | Specified value | Instrument Connection            |
|--------------------|-----------------|----------------------------------|
| VR2                | 0 ± 50 mV       | Pin 4 and pin 1 (GND)<br>of CNP2 |

#### · Tracking Error Balance

| Adjü<br>Point | <br>Adjusting method | Instrument Connection            |
|---------------|----------------------|----------------------------------|
| VR4           | *1                   | Pin 2 and pin 25 (GND)<br>of IC2 |

\*1: Short-circuit the pin 6 of IC8 to the earth. Adjust so as to obtain symmetric waveform (Fig. 35-2) when DC is OV.

#### Focus Gain

| Adjusting<br>Point | Adjusting method                               | Instrument Connection                               |
|--------------------|--|---|
| VR1                | Set the same<br>waveform for CH1<br>and CH2 *2 | Both ends of R46<br>(CH1, CH2) and pin 25<br>of IC2 |

\*2: Apply sine wave (Oscillation frequency 1.0 kHz, 1.0 Vrms) as shown in Figure 35-3.

#### Tracking Gain

| Adjusting<br>Point | Adjusting method                               | Instrument Connection                               |
|--------------------|--|---|
| VR5                | Set the same<br>waveform for CH1<br>and CH2 *3 | Both ends of R55<br>(CH1, CH2) and pin 25<br>of IC2 |

\*3: Apply sine wave (oscillation frequency 1.0 kHz, 1.0 Vrms) as shown in Figure 35-4.

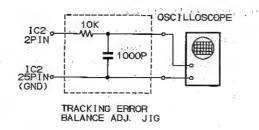


Figure 35-1

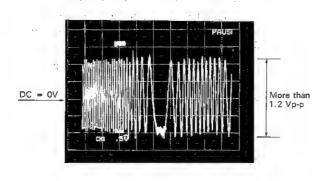


Figure 35-2

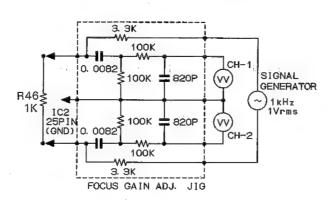


Figure 35-3

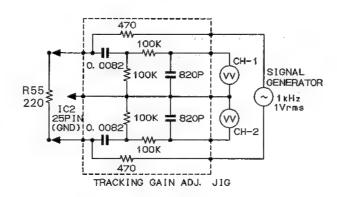


Figure 35-4

## **CD-TEIL**

#### 1. Vorbereitung für die Einstellung

Beim Einstellen darauf achten, auf die Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" Bezug zu

· Test-Betriebsart des Steuerungs-mikrocomputers Nach dem Drücken der REPEAT-und der CALL-Taste den Netzschalter einschalten.

#### 2. Freilauffrequenz des spannungsgesteuerten Oszillators

| Ein-<br>stellpunkt | Vorgeschriebener<br>Wert | Instrumentenanschluß                     |
|--------------------|--------------------------|--|
| L1                 | 4.300 kHz ± 15 kHz       | Stift 63 und Stift 40<br>(Masse) von IC1 |

#### 3. Servoeinheit

Das Einstellverfahren weicht von dem in der Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" beschriebenen Verfahren ab.

Gemäß dem folgenden Verfahren vorgehen.

#### · Fokusabweichung

| Ein-<br>stellpunkt | Vorgeschriebener<br>Wert | Instrumentenanschluß                    |
|--------------------|--------------------------|---|
| VR3                | 0 ± 50 mV                | Stift 2 und Stift 1<br>(Masse) von CNP2 |

#### Abtastabweichung

| Ein-<br>stellpunkt | Vorgeschriebener<br>Wert | Instrumentenanschluß                    |  |
|--------------------|--------------------------|---|--|
| VR2                | 0 ± 50 mV                | Stift 4 und Stift 1<br>(Masse) von CNP2 |  |

#### Abtastfehlerbalance

| Ein-<br>stellpunkt | Einstellverfahren | Instrumentenanschluß                    |
|--------------------|-------------------|---|
| VR4                | *1                | Stift 2 und Stift 25<br>(Masse) von IC2 |

\*1 Den Stift 6 des IC8 an die Erdung kurzschiließen. So einstellen, daß man symmetrische Wellenform (Abb. 35-2) bekommt, wenn die Gleichspannung OV ist.

#### Fokusverstäkung

| Ein-<br>stellp |       | ellverfahren                                 | Instrumentenanschluß  |
|----------------|-------|--|---|
| VR1            | gleic | CH1 und CH2 die<br>he Wellenform<br>ellen *2 | Beide Enden von R46<br>(CH1, CH2) und Stift<br>25 (Masse) von IC2 |

\*2: Eine Sinuswelle wie in Abbildung 35-3 dargestellt zuleiten (Schwingungsfrequenz 1,0 kHz, 1,0 Veff)

#### Abtastverstärkung

| Ein-<br>stellpunkt |     | Einstellverfahren  | Instrumentenanschluß                                      |  |
|--------------------|-----|--|---|--|
|                    | VR5 | Für CH1 und CH2 die<br>gleiche Wellenform<br>einstellen *3 | Beide Enden von R55<br>(CH1, CH2) und Stift<br>25 von IC2 |  |

\*3: Eine Sinuswelle wie in Abbildung 35-4 dargestellt zuleiten (Schwingungsfrequenz 1,0 kHz, 1,0 Veff)

## **PARTIE CD**

#### 1. Préparation du réglage

Lors du réglage, voir le Manuel de service "PROCEDES DE REGLAGE DES PRODUITS ACOUSTIQUES".

· Mode d'essai de l'ordinateur de commande

Tout en appuyant sur la touche REPEAT et la touche CALL, actionner l'interrupteur marche/arrêt.

#### 2. Fréquence à oscillation libre VCO

| Point de<br>réglage | Valeur spécifiée   | Instrument de con-<br>nexion                  |  |
|---------------------|--------------------|---|--|
| L1                  | 4.300 kHz ± 15 kHz | Broche 63 et à la bro-<br>che 40 (GND) de IC1 |  |

#### 3. Unité d'asservissement

Cette méthode de réglage diffère de celle décrite dans le Manuel de service "PROCÉDÉS DE RÉGLAGE DES PRO-**DUITS ACOUSTIQUES''** 

Effectuer le réglage comme suit.

#### Décentrage de foyer

| Point de réglage | Valeur spécifiée | Instrument de con-<br>nexion          |
|------------------|------------------|---------------------------------------|
| VR3              | 0 ± 50 mV        | Broche 2 et broche 1<br>(GND) de CNP2 |

#### Décentrage de l'alignement

| Point de réglage | Valeur spécifiée | Instrument de con-<br>nexion          |
|------------------|------------------|---------------------------------------|
| VR2              | 0 ± 50 mV        | Broche 4 et broche 1<br>(GND) de CNP2 |

#### · Équilibre de l'erreur d'alignement

| Point de<br>réglage | Méthode de réglage | Instrument de con-<br>nexion          |  |
|---------------------|--------------------|---------------------------------------|--|
| VR4                 | *1                 | Broche 2 et broche 25<br>(GND) de IC2 |  |

\*1 Relier la broche 6 de fC8 à la terre.

Effectuer l'ajustement pour obtenir une forme d'onde symétrique (Fig. 35-2) lorsque le courant continu est OV.

#### Gain de foyer

| Point de réglage | Méthode de réglage                                   | Instrument de con-<br>nexion                                  |
|------------------|--|---|
| VR1              | Régler la même forme<br>d'onde pour CH1 et<br>CH2 *2 | Deux extrémités de<br>R46 (CH1, CH2) et bro-<br>che 25 de IC2 |

\*2: Appliquer de l'onde sinusoïdale (fréquence d'oscillation 1,0 kHz, 1.0 Vrms) comme indiqué dans la figure 35-3.

## · Gain de l'alignement

| Point de réglage | Méthode de réglage                                   | Instrument de con-<br>nexion                                  |
|------------------|--|---|
| VR5              | Régler la même forme<br>d'onde pour CH1 et<br>CH2 *3 | Deux extrémités de<br>R55 (CH1, CH2) et bro-<br>che 25 de IC2 |

\*3: Appliquer de l'onde sinusoïdale (fréquence d'oscillation 1,0 kHz, 1,0 Vrms) comme indiqué dans la figure 35-4.

#### · Check HF output

| Adjusting<br>Point | Adjusting method | Instrument Connection |
|--------------------|------------------|-----------------------|
|                    | _                | Pin 36 and pin 25     |
|                    |                  | (GND) of IC2          |

Make sure that waveform is as shown in Figure 37-1.

#### RP-302H/E

Connect the DC supply plug to the CD-302H/E or supply +12V by an external DC power supply.

#### · Auto Lead-in

| Test Record          |    | Adjusting Point           | Specified value |
|----------------------|----|---------------------------|-----------------|
| SSR-4001<br>(Side 2) | EP | Fixed plate excentric pin | 19 to 26 counts |
|                      | LP | Reverse arm excentric pin | 17 to 23 counts |

After adjusting the lead-in position for 30 cm LP record, if the 17 cm EP record lead-in position deviates, readjust with the reverse arm excentric pin for 17 cm record. After the adjustment, lock each one of excentric pins.

#### · Auto-Return

| Test Record          | Adjusting Point              | Specified value |
|----------------------|------------------------------|-----------------|
| SSR-4001<br>(Side 1) | Auto-return<br>adjusting cam | 4 to 11 counts  |

#### · Rotational Speed of Phono Motor

| Jig           | Adjusting Point  |
|---------------|--|
| Strobo viewer | 45 rpm:<br>Variable resistor on motor (H)<br>33 rpm:<br>Variable resistor on motor (L) |

NOTE: Perform the 45 rpm speed adjustment first and them the 33 rpm speed adjustment.

#### BOTTOM VIEW

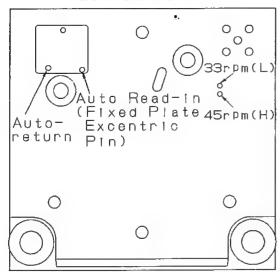


Figure 37-3 ADJUSTMENT POINTS

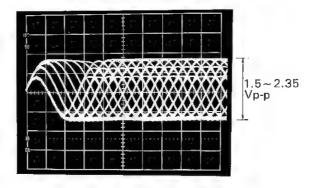


Figure 37-1

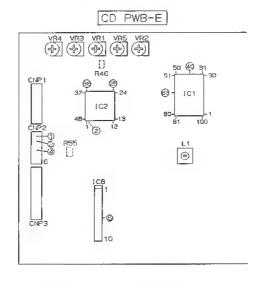


Figure 37—2 ADJUSTMENT POINTS

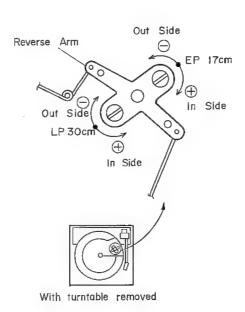


Figure 37-4 ADJUSTMENT POINTS

(D)

#### · Hochfrequenzleistung überprüfen

| Ein-<br>stellpunkt | Einstellverfahren | Instrumentenanschluß                     |
|--------------------|-------------------|--|
| _                  | _                 | Stift 36 und Stift 25<br>(Masse) von IC2 |

Sicherstellen, daß Wellenform so ist, wie in Abb. 37-1 dargestellt.

#### RP-302H

Den Gleichspannungsstecker an das CD-302H anschließen oder durch eine externe Gleichspannungsversorgung es mit Gleichspannung +12 V versorgen.

#### · Einlaufautomatik

| Testschallplatte      |    | Einstellpunkt  | Vorgeschriebener Wert  |
|-----------------------|----|--|------------------------|
| SSR-4001<br>(Seite 2) | EP | Exzenterstift für befe-<br>stigte Platte Rücklauf-<br>Tonarm-Exzenterstift                           | 19 bis 26<br>Zählungen |
|                       | LP | Wenn nach Einstellen<br>der Einlaufposition für<br>30-cm-Langspielplatten<br>die Einlaufposition für | 17 bis 23<br>Zähungen  |

17-cm-EP-Platten abweicht, mit dem Rücklauf-Tonarm-Exzenterstift für 17-cm-Platten nachstellen. Nach der Einstellung jeden von Exzenterstiften feststellen.

#### · Rückführautomatik

| Testschallplatte      | Einstellpunkt                                     | Vorgeschriebener Wert   |
|-----------------------|---|-------------------------|
| SSR-4001<br>(Seite 1) | Einstellnocken für<br>automatische<br>Rückführung | 4 bis 11 Zäh-<br>lungen |

#### · Drehzahl des Plattenspielermotors

| Vorrichtung      | Einstellpunkt  |
|------------------|--|
| Stroboskopmuster | 45 U/min:<br>Stellwiderstand am Motor (H)<br>33 U/min:<br>Stellwiderstand am Motor (L) |

HINWEIS: Zuerst die Drehzahleinstellung von 45 U/min und dann die Drehzahleinstellung von 33 U/min durchführen.

## (F)

#### · Vérifier la sortie HF

| Point de<br>réglage | Méthode de réglage | Instrument de con-<br>nexion           |
|---------------------|--------------------|--|
| _                   | -                  | Broche 36 et broche<br>25 (GND) de IC2 |

S'assurer que la forme d'onde est comme le montre la Figure 37-1.

## RP-302H

Brancher la fiche d'alimentation CC sur CD-302H ou appliquer un courant de +12 V CC à celui-ci.

#### · Entrée automatique

| Disque d'essai                |             | Point de réglage                        | Valeur spécifiée |
|-------------------------------|-------------|---|------------------|
| SSR-4001 45<br>(face 2) tours |             |   |                  |
|                               | 33<br>tours | Broche excentrique<br>du bras de retour | 17 à 23 coups    |

Si, après l'ajustement de la position de l'entrée en lecture pour le disque 33 tours, la position de l'entrée en lecture pour le disque 45 tours dévie, effectuer de nouveau l'ajustement au moyen de la broche excentrique du bras de retour pour le disque 45 tours.

Après l'ajustement, verrouiller toutes les broches excentriques.

#### · Retour automatique

| Disque d'essai       | Point de réglage                              | Valeur spécifiée |
|----------------------|---|------------------|
| SSR-4001<br>(face 1) | Came de réglage<br>de retour auto-<br>matique | 4 à 11 coups     |

#### · Vitesse du moteur phono.

| Outil                 | Point de réglage   |
|-----------------------|--|
| Viseur stroboscopique | 45 tr/mn: Résistance variable<br>sur le moteur (H)<br>33 tr/mn: Résistance variable<br>sur le moteur (L) |

NOTE: Ajuster d'abord la vitesse de 45 tr/mn puis celle de 33 tr/mn.

## WIRING OF PRIMARILY SUPPLY LEADS (CD-302E ONLY)

If any one of the nylon bands shown in the Fig. 39 is removed for some reason, be sure to replace it to the original position and the same appearance as before.

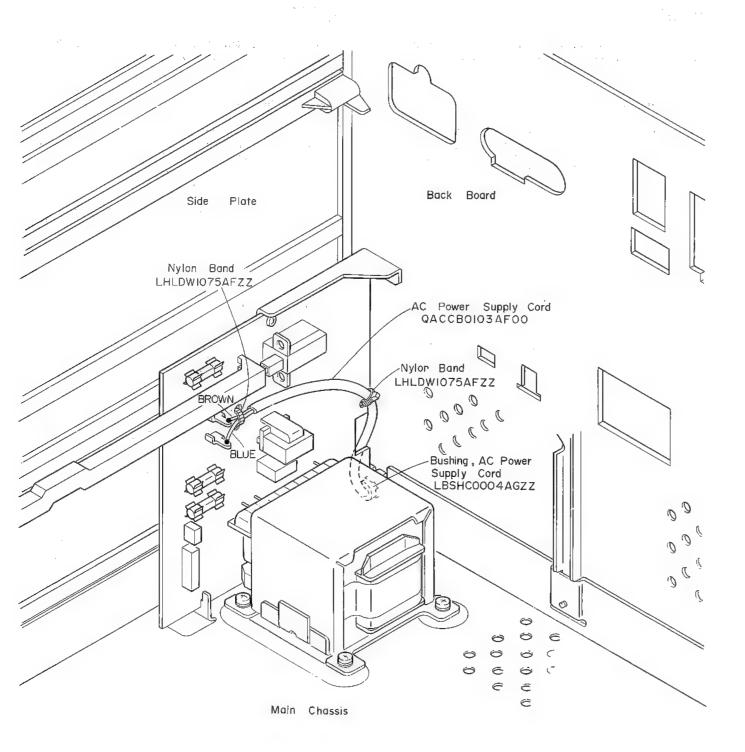


Figure 39

#### (E)

## **NOTES ON SCHEMATIC DIAGRAM**

#### Resistor:

To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with "Fusible" is a fuse type.

#### · Capacitor:

To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.

(CH), (UJ): Temperature compensation

(ML): Mylar type

(P.P.): Polypropylene type

- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- Parts marked with "A" (\_\_\_\_\_) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

## ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

#### Widerstände:

Um die Einheiten der Widerstände unter-scheiden zu können, werden Symbole Wir K und M benutzt. Das Symbol K bedeutet 1000 Ohm und das Symbol M 1 000 Kiloohm; Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände. Außerdem sind die mit "Fusible" bezeichneten Widerstände Schmelzsicherungstypen.

Kondensatoren:

Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofard. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Be-zeichnung "Kapazität/ Stehspannung" benutzt.

(CH), (UJ): Temperaturkompensation

(ML): Mylarkondensator

(P.P.): Polypropylentyp

- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffen den Teil und dem Chassis ohne Signalzuleitung gemessen.
- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen iederzeit vorbehalten.
- Die mit A (\_\_\_\_\_\_) bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

## REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

#### Résistance:

Pour différencier les unités de résistances, on utilise des symbole tels que K et M: le symbole K signifie 1000 ohms, le symbole M 1000 Kohms, et la résistance donnée sans symbole est une résistance de type ohm. En outre, celle qui est dotées de "Fusible" est de type à fusible.

Condensateur:

Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression ''tension de régime/capacité''.

(CH), (UJ): Compensation de température

(ML): Condensateur Mylar

(P.P.): Type Polypropylène

- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.
- Le diagramme schématique et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.
- Les pièces portant la marque ( ) sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

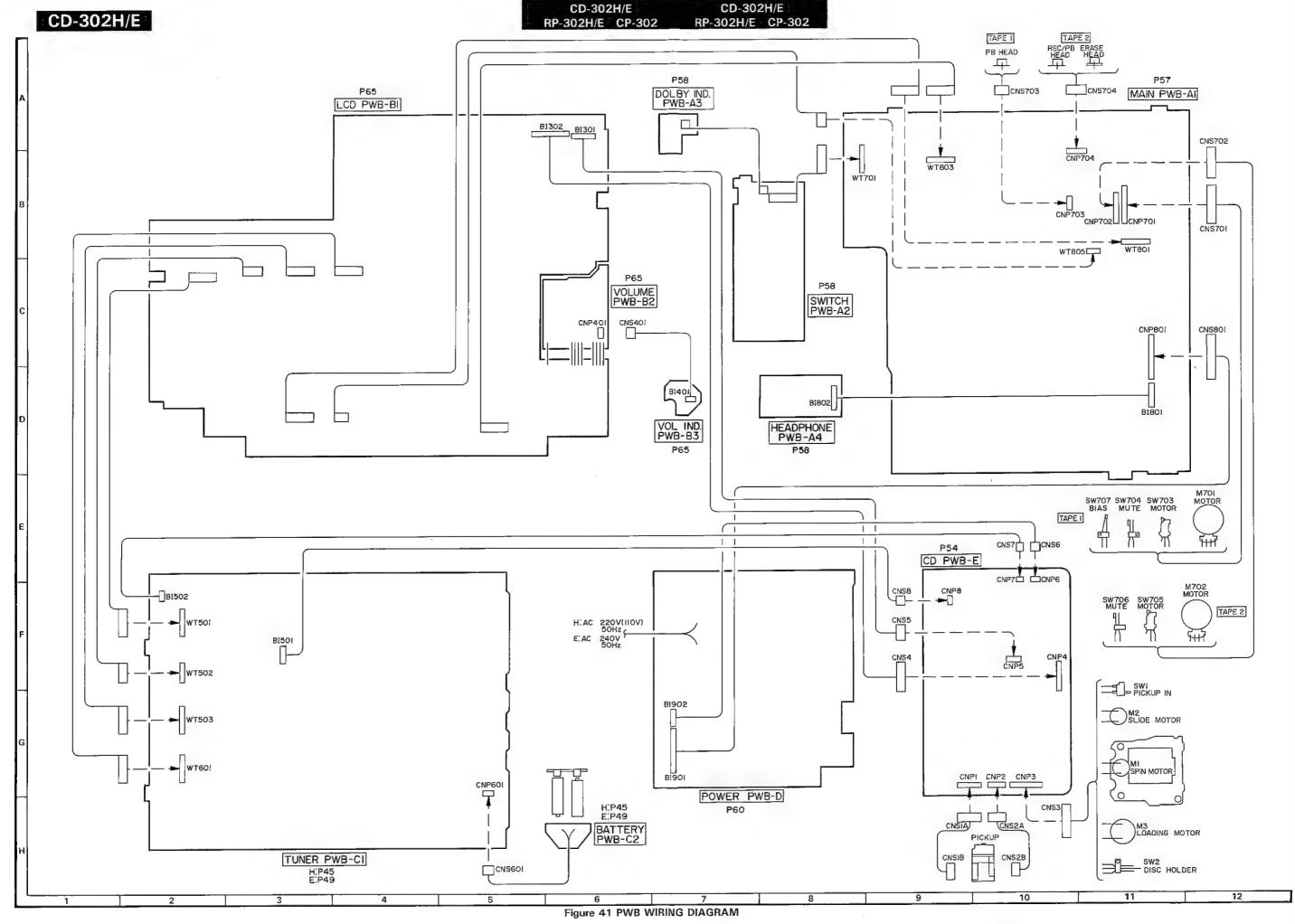
#### CD-302H/E

| CD-302  |                    |             |         |                      |             |   |
|---------|--------------------|-------------|---------|----------------------|-------------|---|
| REF.NO. | DESCRIPTION        | POSITION    | REF.NO. | DESCRIPTION          | POSITION    |   |
| SW1     | Pickup In          | ON-OFF      | SW280-D | Tape 2               | CrO2-NORMAL | [ |
| SW2     | Disc Holder        | OPEN-CLOSE  | SW301   | Play, CD             | ON-OFF      | 3 |
| SW201   | Tuning Up, Tuner   | ON-OFF      | SW302   | Pause, CD            | ON-OFF      | 1 |
| SW202   | Tuning Down, Tuner | ON-OFF      | SW303   | Cue/APSS Up, CD      | ON-OFF      | [ |
| SW203   | LW, Tuner          | ON-OFF      | SW304   | Review/APSS Down, CD | ON-OFF      | 5 |
| SW204   | MW, Tuner          | ON-OFF      | SW305   | Stop/Clear, CD       | ON-OFF      | 4 |
| SW205   | FM, Tuner          | ON-OFF      | SW306   | Memory, CD           | ON-OFF      | 4 |
| SW206   | FM Mode, Tuner     | ON-OFF      | SW307   | Call, CD             | ON-OFF      | 1 |
| SW207   | Preset Up, Tuner   | ON-OFF      | SW308   | Repeat, CD           | ON-OFF      |   |
| SW208   | Preset Down, Tuner | ON-OFF      | SW309   | Open/Close, CD       | ON-OFF      |   |
| SW209   | Memory, Tuner      | ON-OFF      | SW401   | Phono, Function      | ON-OFF      | 1 |
| SW210   | Auto Scan, Tuner   | ON-OFF      | SW402   | CD, Function         | ON-OFF      | Ŀ |
| SW280-A | Dubbing Speed      | HIGH-NORMAL | SW403   | Tuner, Function      | ON-OFF      | 1 |
| SW280-B | Dolby NR           | ON-OFF      | SW404   | Tape, Function       | ON-OFF      | Ŀ |
| SW280-C | Tape 1             | CrO2-NORMAL | SW405   | Aux, Function        | ON-OFF      |   |
|         |                    |             |         |                      |             |   |

| N   | REF.NO. | DESCRIPTION        | POSITION    |
|-----|---------|--------------------|-------------|
| MAL | SW701   | Rec./P.B. Selector | REC-PB      |
| F   | SW702   | Beat Cancel        | <u>A</u> -B |
| F   | SW703   | Motor, Tape 1      | ON-OFF      |
| F   | SW704   | Mute, Tape 1       | ON-OFF      |
| E   | SW705   | Motor, Tape 2      | ON-OFF      |
| F   | SW706   | Mute, Tape 2       | ON-OFF      |
| F   | SW707   | Bias, Tape 2       | ON-OFF      |
| F   | SW901   | Power              | ON-OFF      |
| -   |         |                    |             |

### RP-302H/E

| REF.NO. | DESCRIPTION | POSITION      |
|---------|-------------|---------------|
| SW101   | Speed       | <u>33</u> -45 |
| SW102   | Start       | ON-OFF        |
| SW103   | Arm         | ON-OFF        |
|         |             |               |



10

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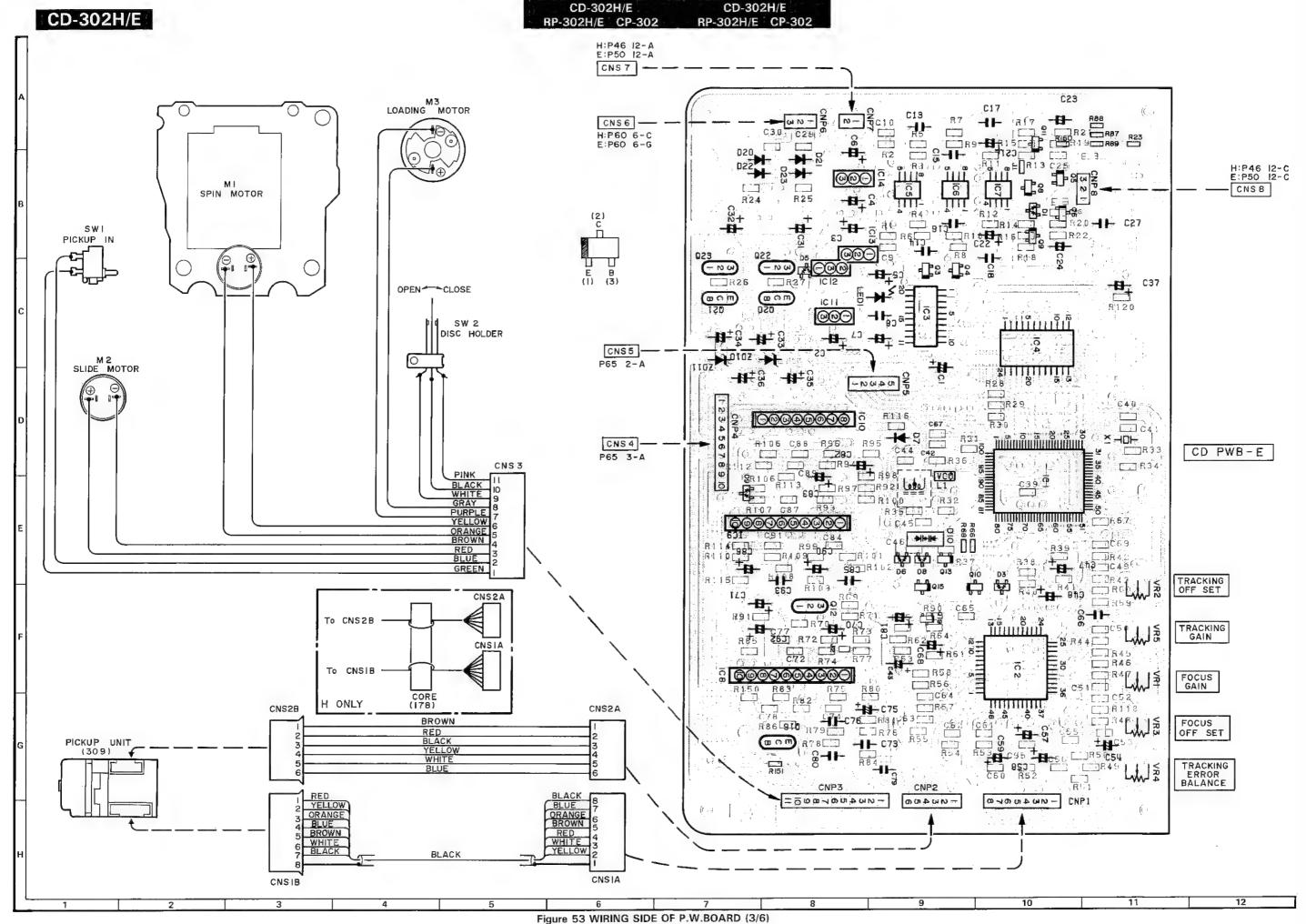
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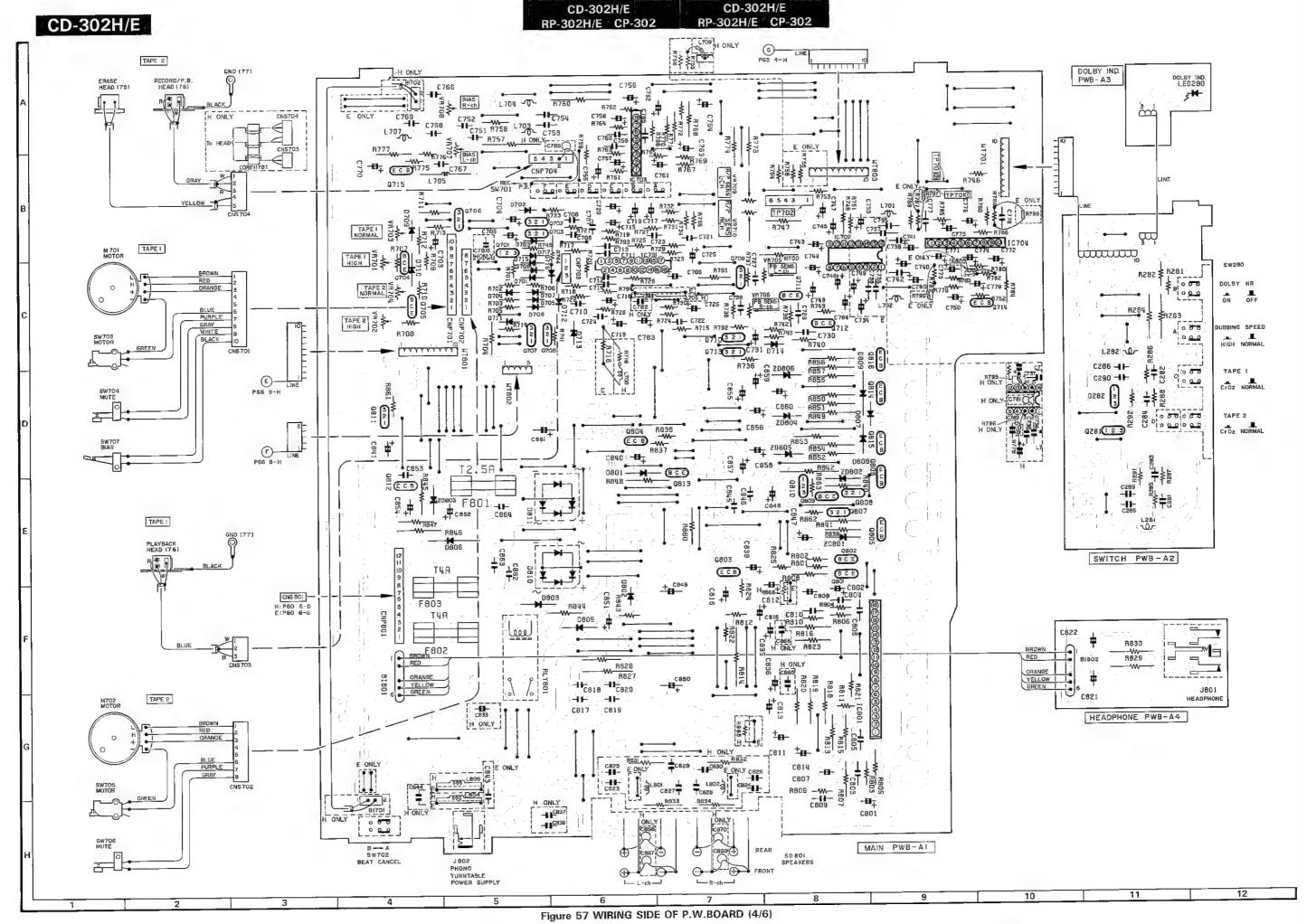
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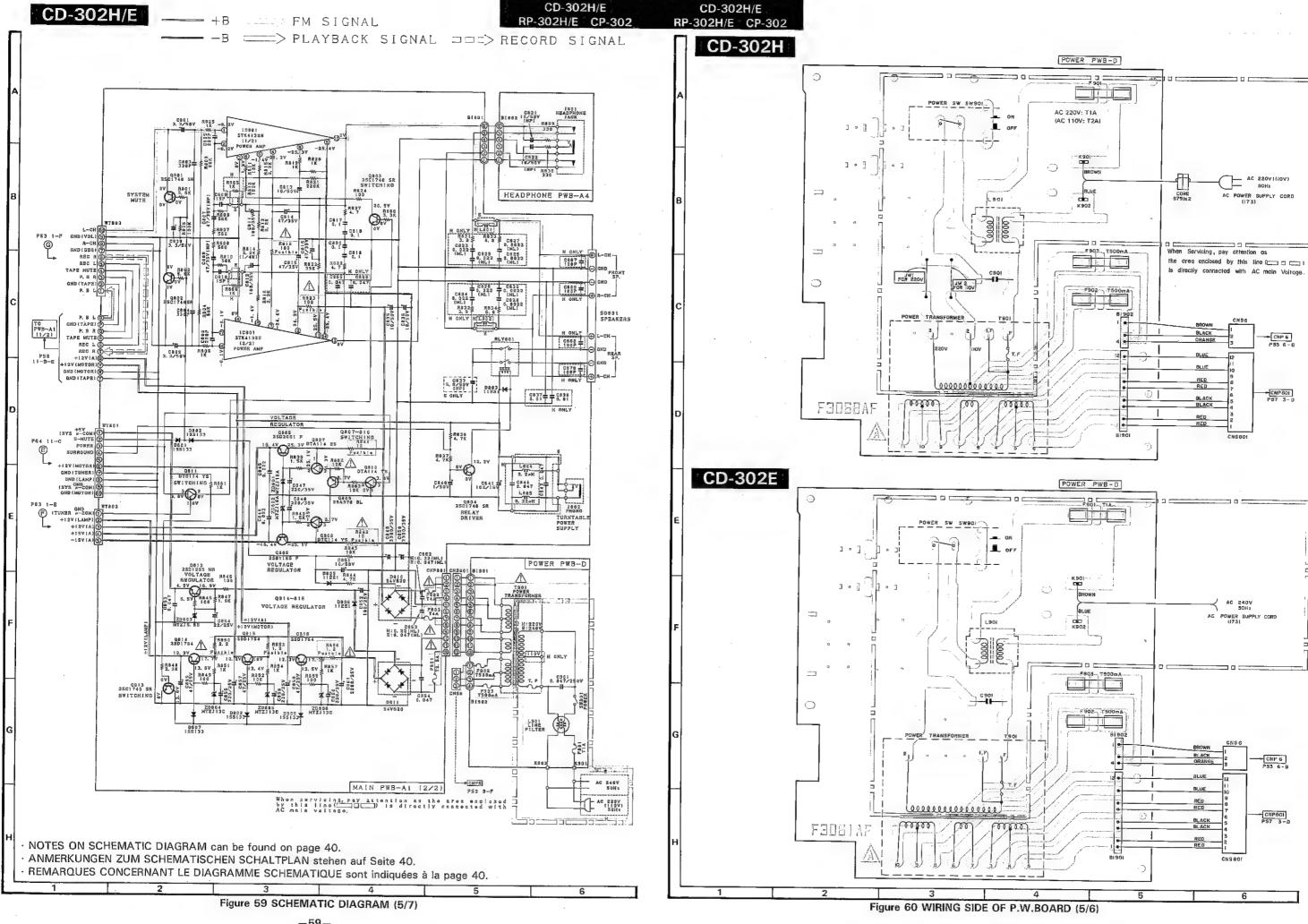
CD-302H/E

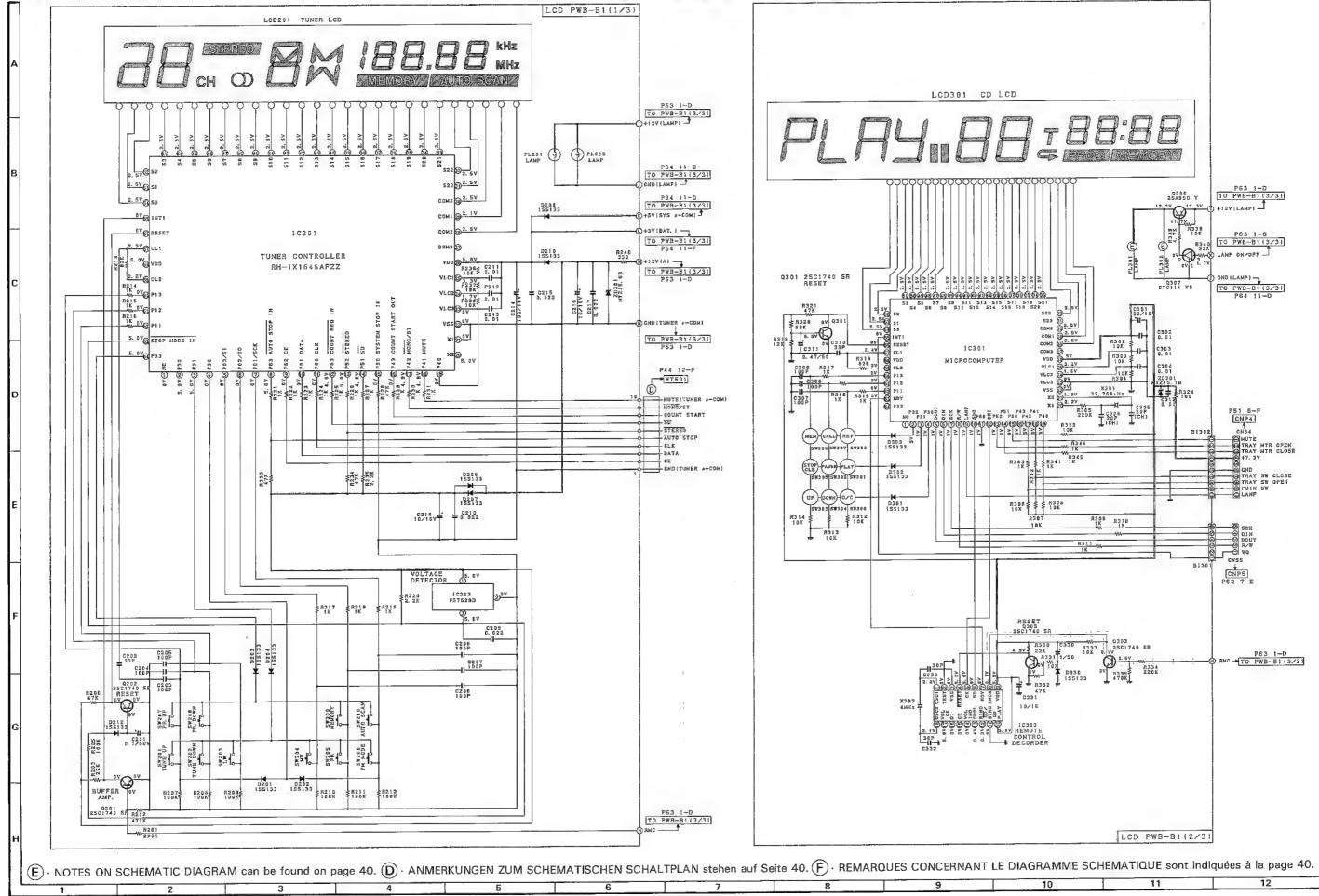
CD-302H/E



-55-





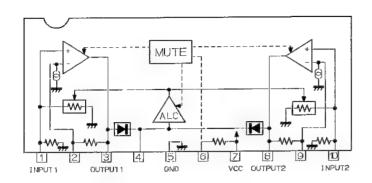


-64-

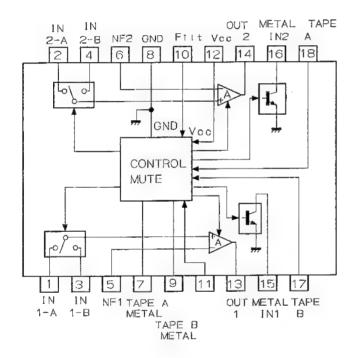
CD-302H/E

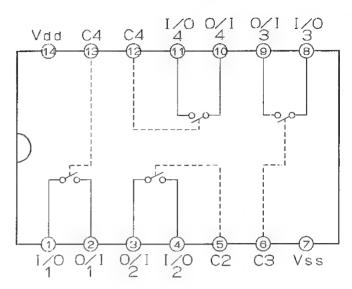
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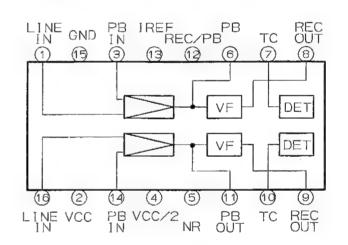


#### BA3416BL





#### HA12136



#### **BA4558N**

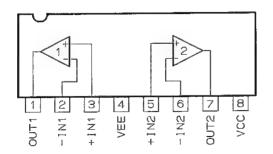
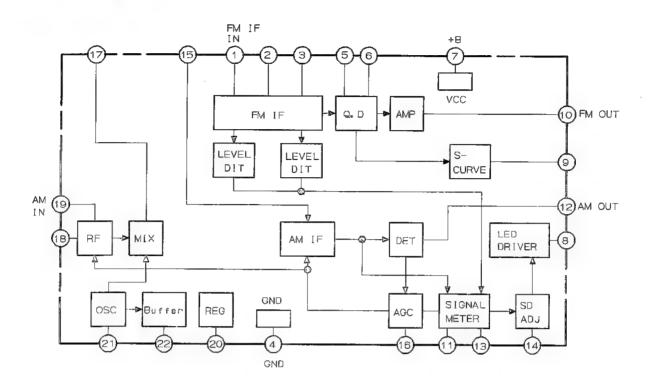


Figure 69 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

LA1265



#### LA3401

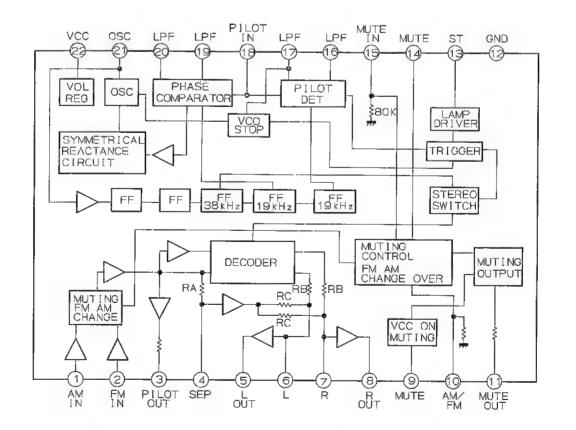
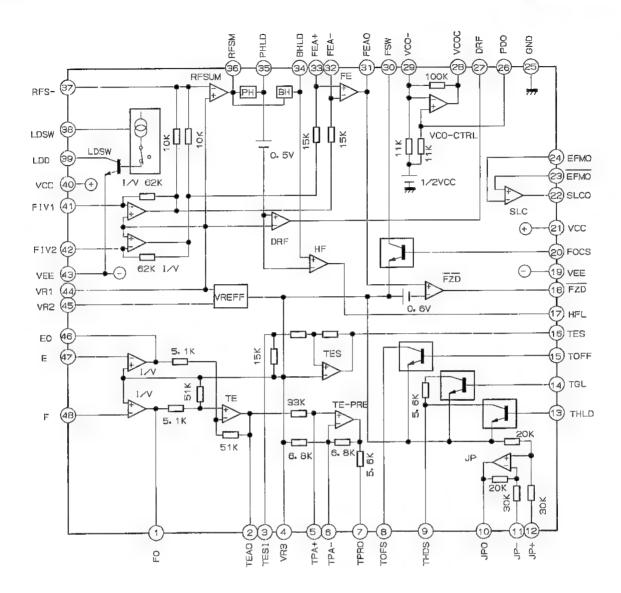


Figure 70 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC



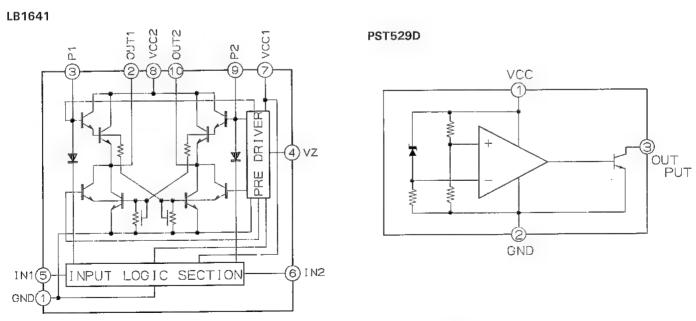
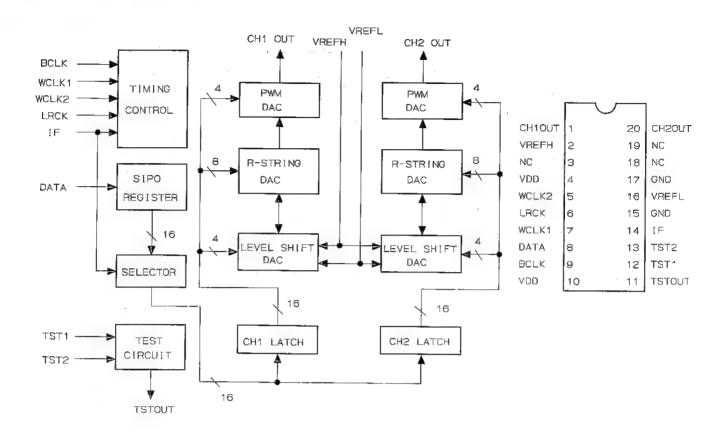


Figure 71 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

LC7880M



#### RH-iX1525AFZZ

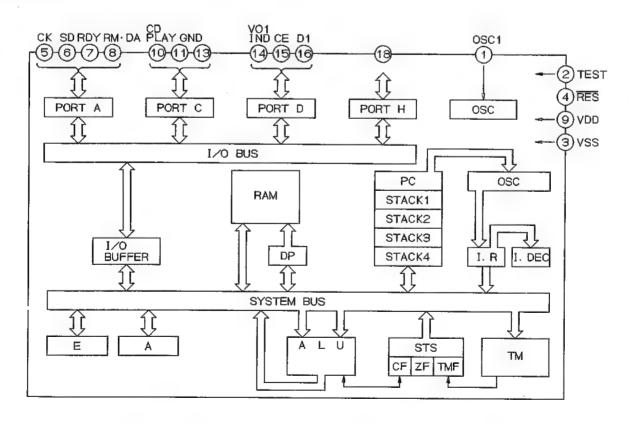
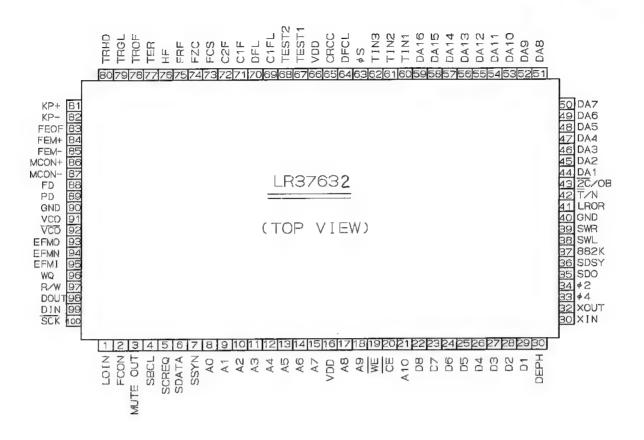


Figure 72 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC



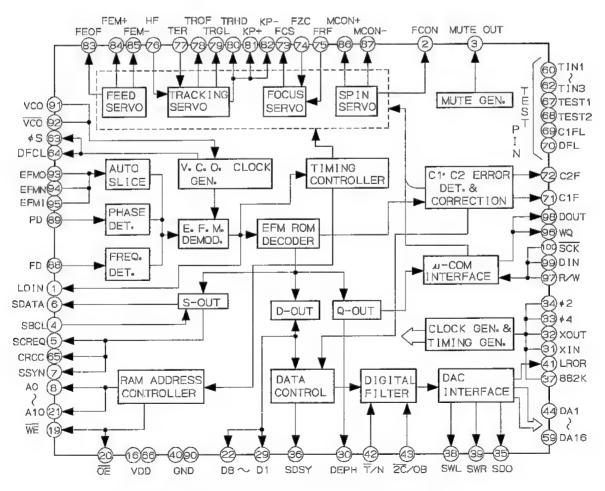
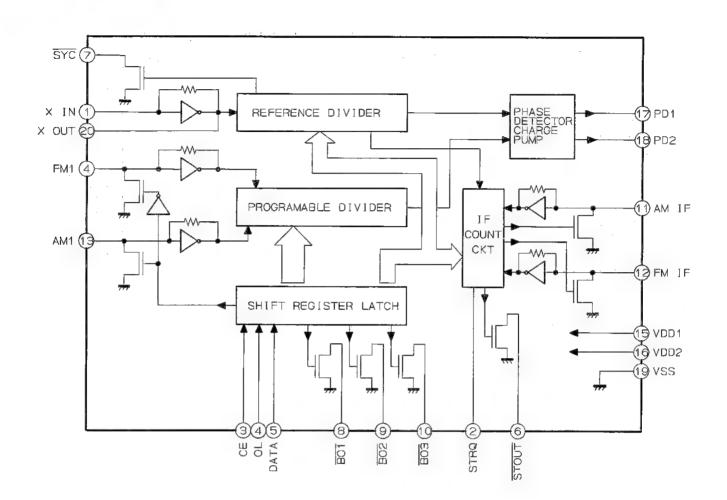


Figure 73 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC



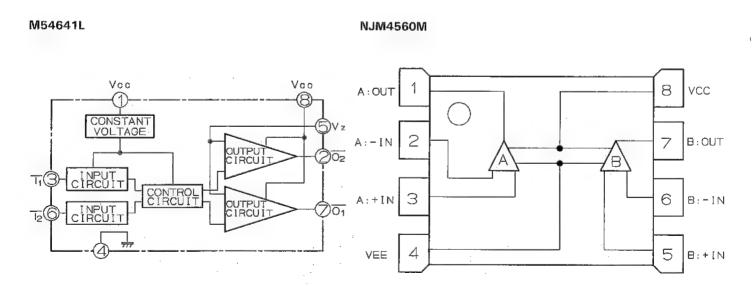
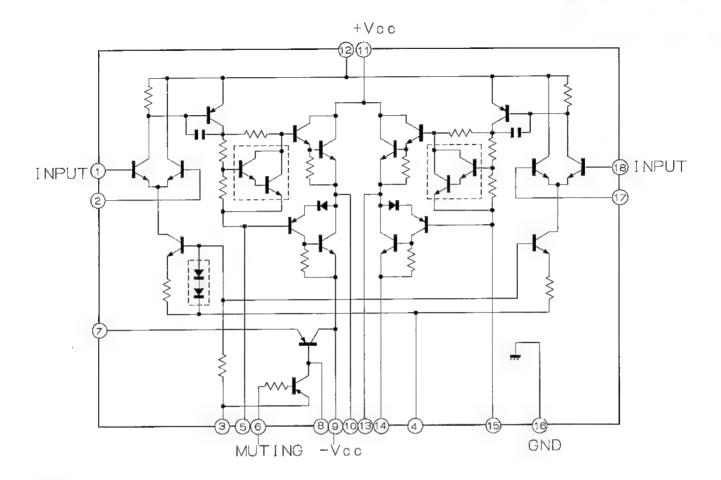


Figure 74 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC



#### TA7666P

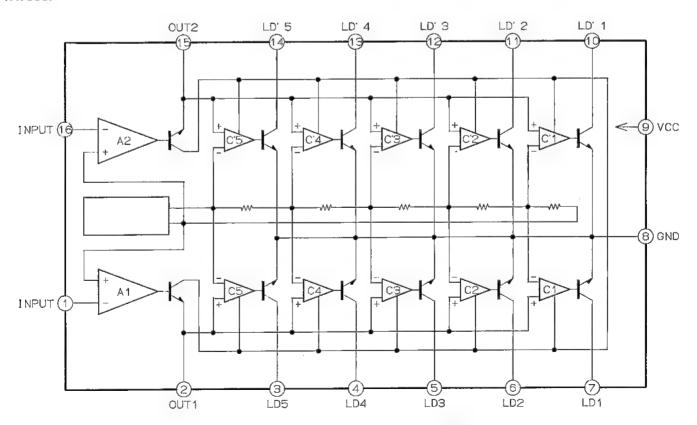
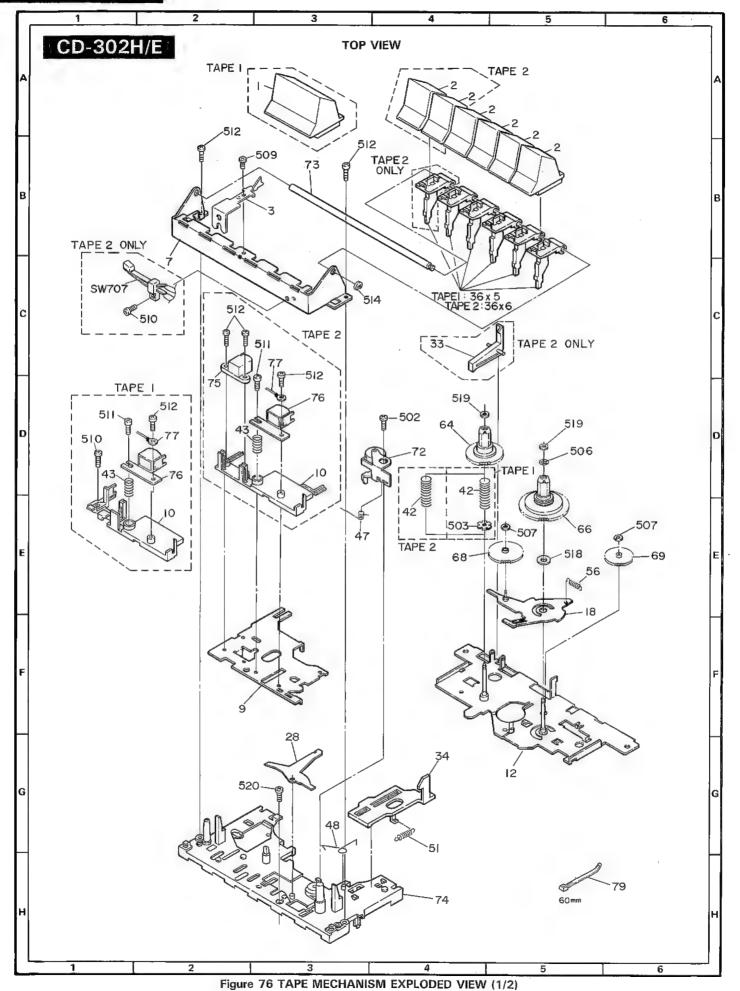
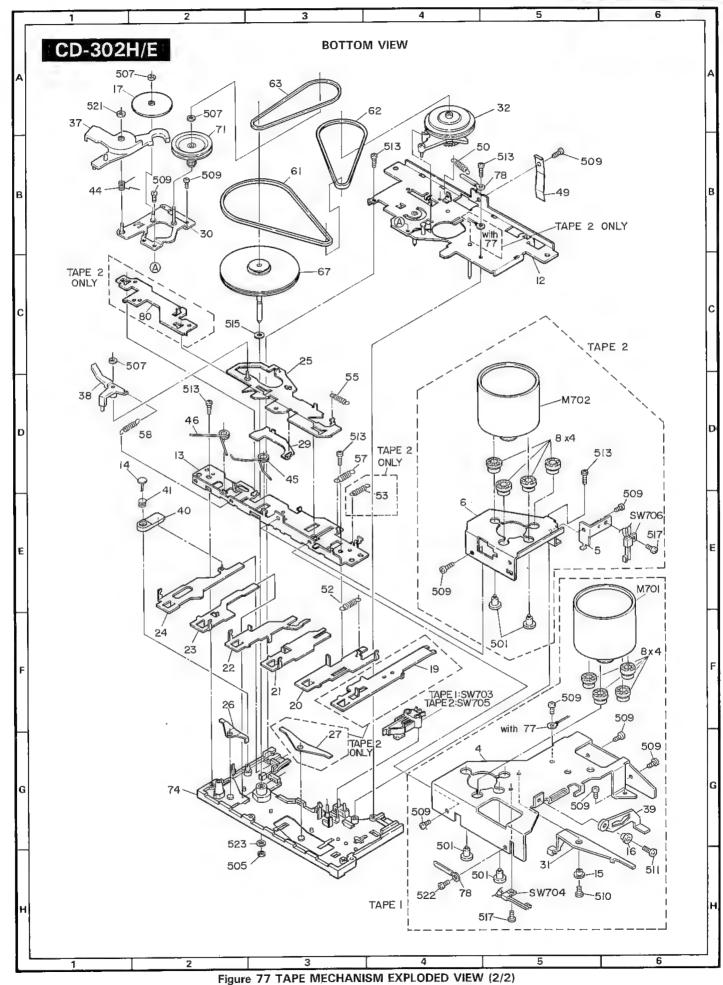
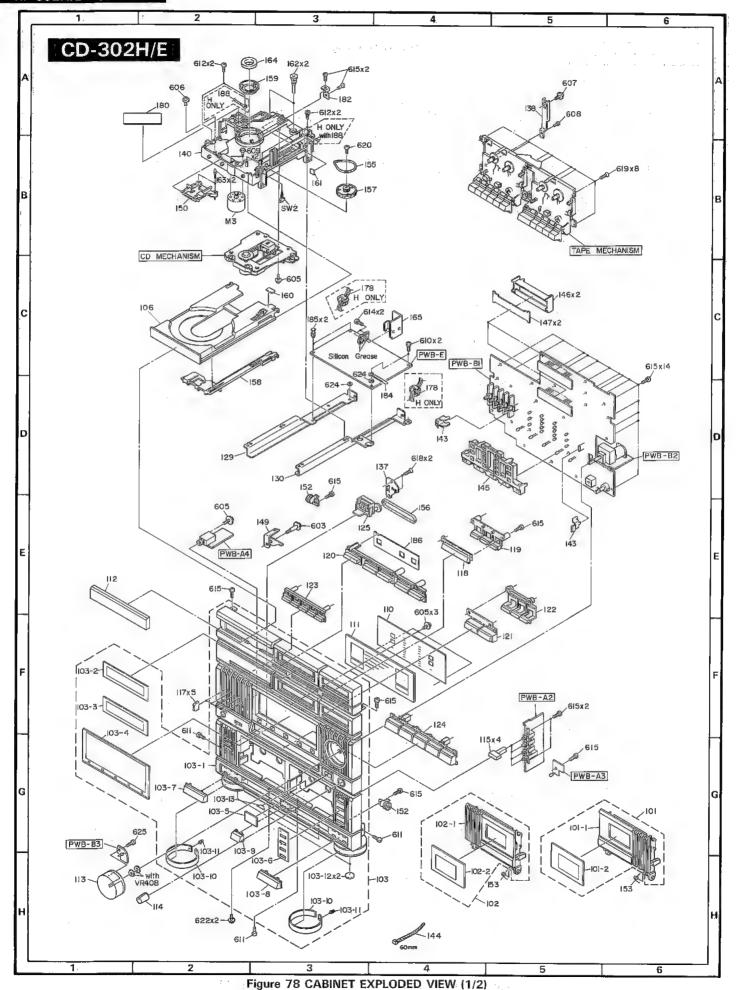


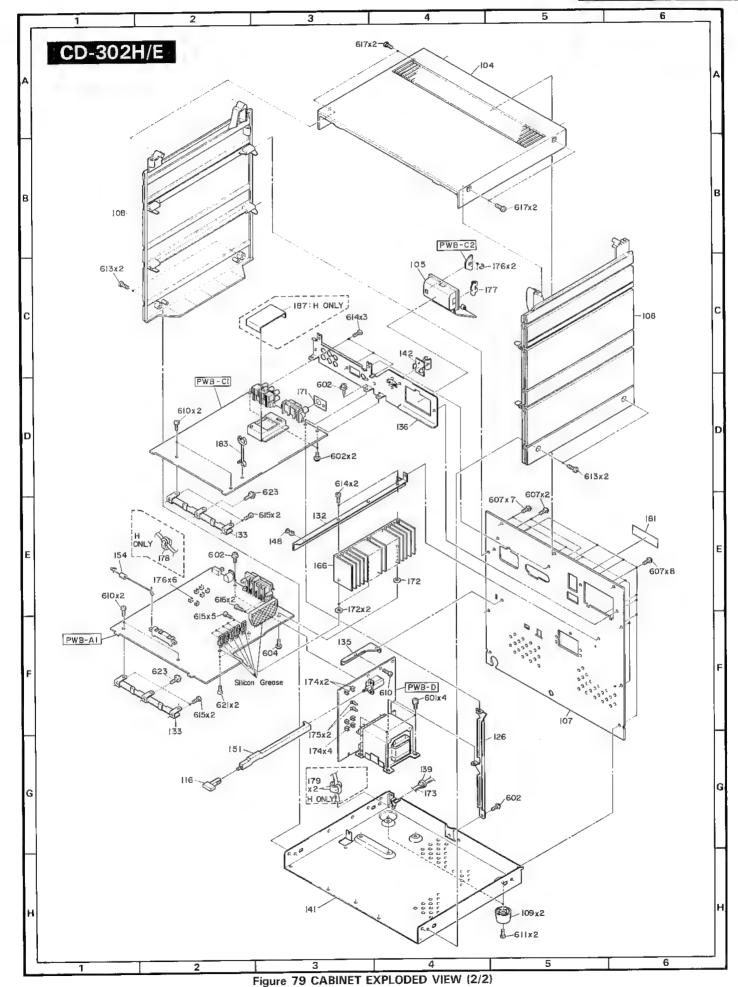
Figure 75 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

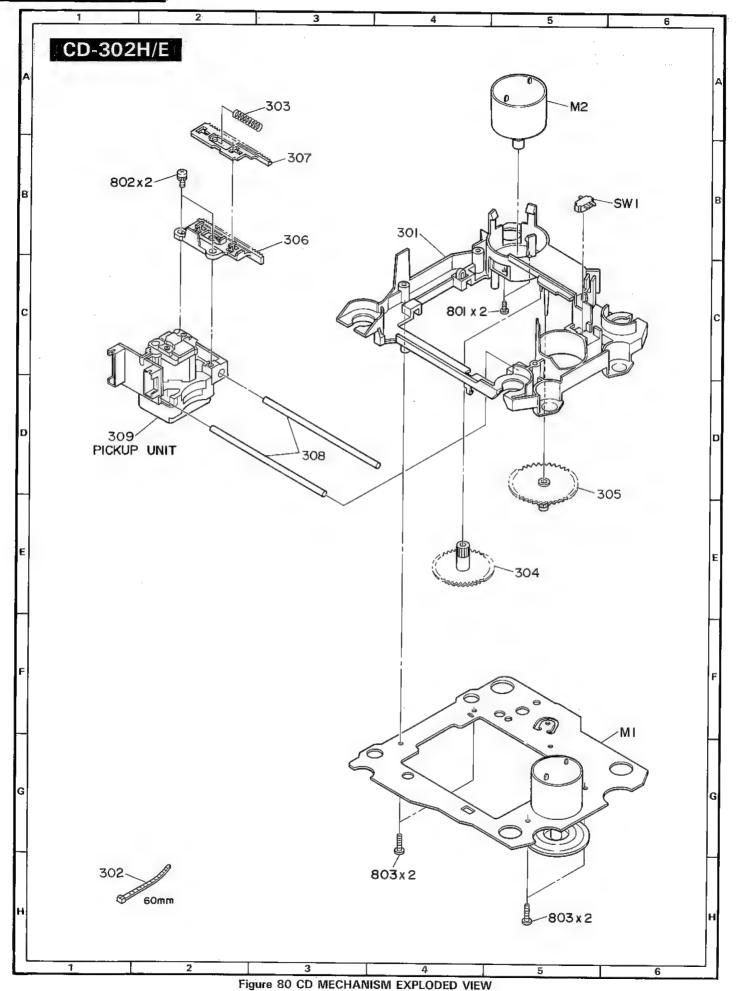




-77-







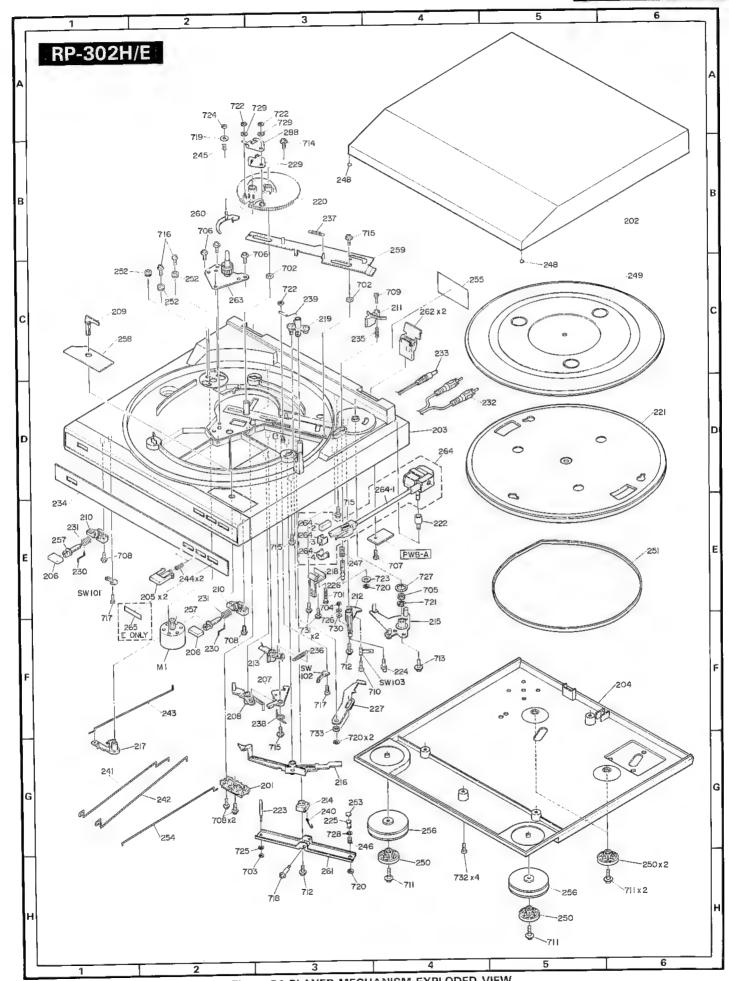
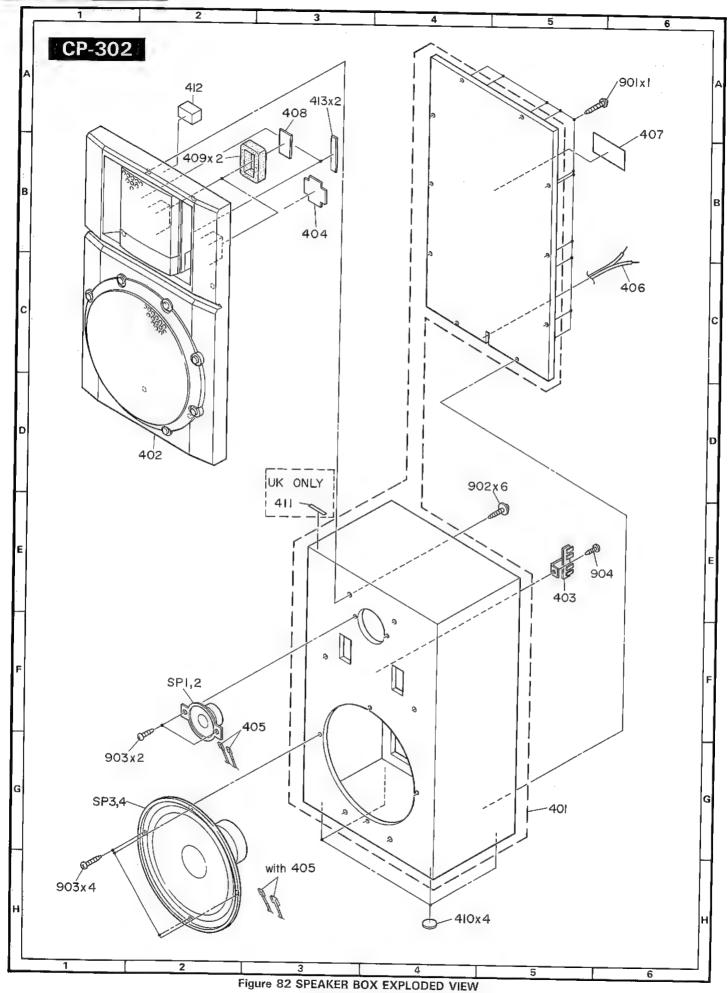


Figure 81 PLAYER MECHANISM EXPLODED VIEW



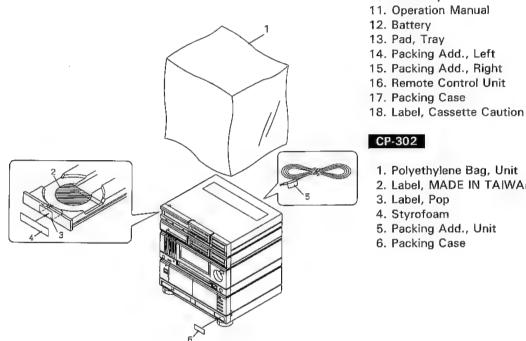
### PACKING METHOD (CD-302E/CP-302 for UK ONLY)

#### SETTING POSITIONS OF SWITCHES AND KNOBS

Disc Holder Power Balance Control Graphic Equalizer Control Volume Control Tape Mechanism Tape Counter Dolby NR **Dubbing Speed** Tape 1 Tape 2

Beat Cancel

CLOSE **OFF** CENTER "O" (CENTER) MŪMINIM STOP "0000" OFF NORMAL NORMAL **NORMAL** "A"





1. Polyethylene Bag, Unit SPAKP0863AFZZ 2. Sheet, Disc Holder SPAKX2319AFZZ 3. Tray Add. SPAKX2324AFZZ 4. Label, Tray Add. Caution TCAUZ0260AFZZ 5. Label, AC Power Supply TCAUH0056AGZZ Cord

TLABJ0006AFZZ 6. Label, MADE IN JAPAN QANTL0109AFZZ 7. Loop Antenna 8. FM Antenna QANTW0104AFZZ 9. Polyethylene Bag, SSAKA0024AFZZ Accessories 10. Warranty Card TGANE1117AFZZ TiNSE1460AFZZ 11. Operation Manual

12. Battery SPAKX2332AFZZ 13. Pad, Tray 14. Packing Add., Left SPAKA2081AFZZ 15. Packing Add., Right SPAKA 2082AFZZ 16. Remote Control Unit RRMCG0165AFSA

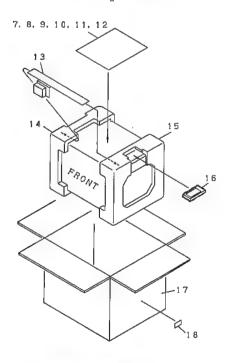
SPAKC5113AFZZ

TCAUH0352AFZZ

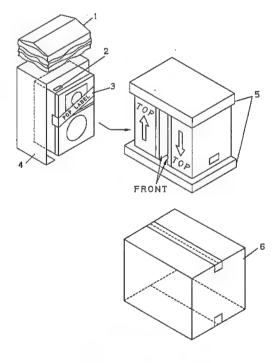
CP-302

97HCP302U-BAG 1. Polyethylene Bag, Unit 2. Label, MADE IN TAIWAN 97HCP302ō-LAB 3. Label, Pop 97HCP302PoP-A 4. Styrofoam 97HCP302P-MAT

5. Packing Add., Unit 97HCP302P-ADD 6. Packing Case 97HCP302CASE-A



CD-302E



CP-302

-83-

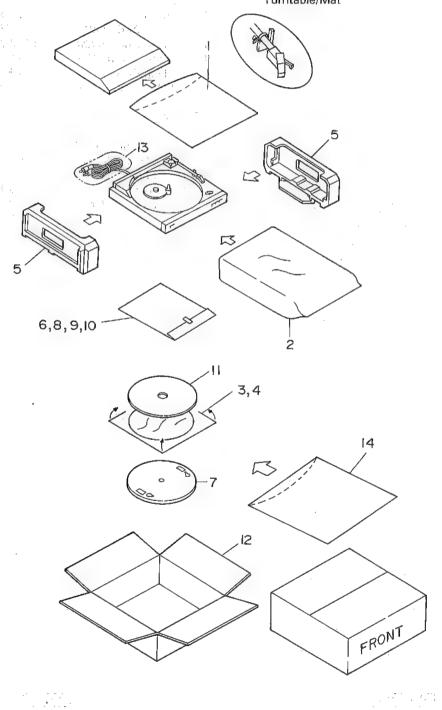
## PACKING METHOD (RP-302E ONLY)

| SET                  | TING POSIT | TIONS OF | SWITCHES AND KNOB |
|----------------------|------------|----------|-------------------|
| Size<br>Speed<br>Cue |            | 11.00    |                   |

- 1. Styrofoam, Dust Cover
- 2. Polyethylene Bag, Unit
- 3. Mat, Turntable
- Sheet, Turntable Mat
   Packing Add., Unit
- 6. Warranty Card
- 7. Turntable
- 8. Operation Manual
- 9. Polyethylene Bag, Operation Manual
- 10. EP Adaptor
- 11. Pad, Turntable Mat
- 12. Packing Case
- 13. Polyethylene Bag, Plug
- 14. Polyethylene Bag, Turntable/Mat

9AH509L100016 9AH505B600010 9AH604F700045 9AH505L100029 9AH506L100047 TGANE1117AFZZ 9AH100F700228 9AH502302E110 9AH701302E324:

9AH100H200016 9AH507B600070 9AH507302E516 9AH505B605017 9AH505M204006





# REPLACEMENT PARTS LIST

# **ERSATZTEILLISTE**

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig

ausführen zu können, bitten wir um die

1. MODELLNUMMER 2. REF. NR.

# LISTE DES PIÈCES DE RECHANGE

#### "HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

- 1. MODEL NUMBER
- 2. REF. NO.
- 3. PART NO.
- 4. DESCRIPTION

**★MARK**:

SPARE PARTS-DELIVERY SECTION

#### ANMERKUNGEN:

Die mit "A" bezeichneten Teile sind besonders

#### "COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

- 1. NUMÉRO DU MODÈLE
- 2. N° DE RÉFÉRENCE
- 3. N° DE LA PIÈCE
- 4. DESCRIPTION

**★REMAROUE**:

Pieces de rechange-Section de livraison

Parts marked with "A" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the

folgenden Angaben.

3. TEIL NR. 4. BESCHREIBUNG

**★MARKIERUNG**:

wichtig für die Aufrechterhaltung der Sicherheit, Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die

**ERSATZTEILE-LIEFERUNG** 

#### NOTE:

Les pièces portant la marque "A" sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de

|           |                         |       | Leistung des Ge                | rătes a | ufrechtzuerhalten. | l'appareil.   |    |                          |      |
|-----------|-------------------------|-------|--------------------------------|---------|--------------------|---------------|----|--------------------------|------|
| REF.NO.   | PART NO.                | *     | DESCRIPTION                    | CODE    | REF.NO.            | PART NO.      | *  | DESCRIPTION              | CODE |
| CD-302H/  |                         |       |                                | -       | IC703              |               |    | Rec. Amp.,BA4558N        | A C  |
|           | INTEGRATE               | D CIR | CUITS                          |         | IC704              |               |    | ALC Amp.,BA3312N         | ΑF   |
|           |                         |       |                                |         | IC801              | VHiSTK4132M-1 | J  | Power Amp.,STK4132 II    | AW   |
| IC1       | VHiLR37632/-1           |       | rvo/Signal Control,<br>_R37632 | AX      |                    | TRANSI        | ST | ORS                      |      |
| IC2       | VHiLA9200M/-1           | J Ser | rvo Amp.,LA9200M               | AN      |                    |               |    |                          |      |
| IC3       | VHiLC7880M/-1           | J D/  | A Converter, LC7880M           | AN      | Q3,4               | •             |    | Digital, NPN, DTC114 YK  | AΒ   |
| IC4       | VHiLH5116N-20           | J 16  | <-bit RAM,LH5116N              | AP      | Q5,6               | VSDTC363TK/-1 | J  | Digital, NPN, DTC363 TK  | A C  |
| IC5~7     |                         |       | ffer Amp., NJM4560M            | ΑE      | Q8                 | ·             |    | Digital, PNP, DTA114 EK  | AΒ   |
| IC8       | VHiLA6515//-1           | J Tra | acking/Focus Driver,           | AΗ      | Q9,10              | · ·           |    | Digital, NPN, DTC114 YK  | AΒ   |
|           |                         |       | .A6515                         |         | Q11                |               |    | Silicon, NPN, 2SC2412 KR | AB   |
| IC9       | VHiLA6515//-1           | J Mo  | tor Driver,LA6515              | АН      | Q12                |               |    | Digital, NPN, DTC114 YS  | AΒ   |
| IC10      | VHIM54641L/-1           | J Mo  | tor Driver,M54641L             | AG      | Q13                |               |    | Digital, NPN, DTC114 YK  | AΒ   |
| IC11      | VHINJM79L05A1           | J Vol | Itage Regulator, NJM79         | ΑE      | Q15                |               |    | Digital, NPN, DTC114 YK  | AΒ   |
|           |                         |       | _05A                           |         | Q16                |               |    | Silicon, PNP, 2SA562 Y   | A C  |
| IC12      | VHiTA78L005AP           | J Vol | Itage Regulator,TA78           | AF      | Q19                |               |    | Digital, NPN, DTC114 YK  | AΒ   |
|           |                         | L     | _005AP                         |         | Q20                | VS2SD1825/-1F | J  | Silicon, NPN, 2SD1825    | ΑE   |
| IC13      | VHiNJM78L05A1           | J Val | Itage Regulator,NJM78          | A D     | Q21                |               |    | Silicon, PNP, 2SB1223    | ΑF   |
|           |                         | L     | _05A                           |         | Q22                |               |    | Digital, PNP, DTA114 ES  | ΑВ   |
| IC14      | VHiNJM79L05A1           | J Val | Itage Regulator, NJM79         | A E     | Q23                | VSDTC114ES/-1 | J  | Digital, NPN, DTC114 ES  | ΑВ   |
|           |                         | L     | .05A                           |         | Q201,202           |               |    | Silicon, NPN, 2SC1740 SR | AΒ   |
| IC201     | RH-iX1646AFZZ           |       |                                | ΑТ      | Q281,282           |               |    | Digital, NPN, DTC114 YS  | АВ   |
| IC203     | VHiPST529D/-1           | J Vol | Itage Detector, PST529D        | ΑE      | Q301               |               |    | Silicon, NPN, 2SC1740 SR | AΒ   |
| IC301     | RH-iX1619AFZZ           |       | •                              | ΑT      | Q303               |               |    | Silicon, NPN, 2SC1740 SR | AΒ   |
| IC303     |                         |       | mote Control Decorder          | A M     | Q305               |               |    | Silicon, NPN, 2SC1740 SR | ΑВ   |
| IC401     | VHIBA4558N/-1           |       |                                | A C     | Q306               |               |    | Silicon, PNP, 2SA950 Y   | ΑВ   |
| IC403     | VH;TA7666P/-1           |       | ,                              | A M     | Q307               |               |    | Digital, NPN, DTC114 YS  | AB   |
| IC404     | RH-iX1644AFZZ           |       |                                | AP      | Q401~412           |               |    | Silicon, NPN, 2SC1740 SR | ΑВ   |
| IC405     | VHiLB1641//-1           |       |                                | ΑF      | Q415               | ,             |    | Digital, PNP, DTA114 ES  | AB   |
| IC406     | VHiPST529D/-1           | J Res | set,PST529D                    | ΑE      | Q416               |               |    | Digital, NPN, DTC114 YS  | AΒ   |
| IC501     | VH i BA 4 5 5 8 N / - 1 |       |                                | A C     | Q417               |               |    | Silicon, NPN, 2SC1740 SR | AB   |
| IC502~505 |                         |       | nction Selector,BU4066B        | AF      | Q418~426           |               |    | Digital, PNP, DTA114 ES  | AB   |
| 1C506     | VHIBA4558N/-1           |       | • •                            | A C     | Q501               | · ·           |    | Digital, PNP, DTA114 ES  | AB   |
| IC507     | VHiBU4066B/-1           |       |                                | A F     | Q502,503           |               |    | Digital, NPN, DTC114 YS  | АВ   |
|           |                         | -     | 3U4066B                        |         | Q504               | · ·           |    | Digital, PNP, DTA114 ES  | AΒ   |
| 1C508     |                         |       | rround Amp.,BA4558N            | A C     | Q505               |               |    | Digital, NPN, DTC114 YS  | ΑВ   |
| 1C509     |                         |       | Bass Switching, BU4066B        |         | Q506               |               |    | Digital, PNP, DTA114 ES  | ΑВ   |
| IC601     | VH;LM7000//-1           |       | •                              | AP      | Q507               |               |    | Digital, NPN, DTC114 YS  | ΑВ   |
|           |                         |       | Controller,LM7000              |         | Q508,509           |               |    | Digital, PNP, DTA114 ES  | АВ   |
| IC602     | VHiLA1265S/-1           | J FM  | I IF/Det & AM IF,LA1265        | AU ]    | Q510,511           |               |    | Digital, NPN, DTC114 YS  | ΑB   |
|           |                         | 5     |                                | ĺ       | Q512               |               |    | Digital, PNP, DTA114 ES  | АВ   |
| IC603     | VHiLA3401//-1           |       |                                | AK      | Q513~516           |               |    | Silicon, NPN, 2SC1740 SR | AB   |
| IC701     | VHIBA3416BL-1           |       | yback Epualizer Amp.,          | AG      |                    |               |    | Digital, PNP, DTA114 ES  | AB   |
|           |                         |       | 3A3416BL                       |         | Q520,521           | VSDTC114YS/-1 | J  | Digital, NPN, DTC114 YS  | AB   |
| IC702     | VHiHA12136/-1           | J Do  | lby NR,HA12136                 | AM      |                    |               |    |                          |      |

| RP-302H/E  | CP-302        |                            |      |               |                 |                |  |      |
|------------|---------------|----------------------------|------|---------------|-----------------|----------------|--|------|
| REF.NO.    | PART NO.      | <b>★</b> DESCRIPTION       | CODE | REF.NO.       | PART NO.        | * D            | ESCRIPTION                               | CODE |
| Q601       | VS2SC2785EF-1 | J Silicon, NPN, 2SC2785 EF | ۸р   | J 7D401       | VIJENTZ LABOR 1 | 1 7 1          | 01/ 1/17/12 00                           | 4.0  |
| Q001       | V323C2/03EF-1 | [H Only]                   | A B  | ZD401         | VHEMTZJ3R9B-1   |                | 9V,MTZJ3.9B                              | ΑĊ   |
| 0600       | Veneconn 5/ 1 |                            | 4.0  | ZD501,502     | VHEMTZJ8R2A-1   |                |  | AA   |
| Q602       |               | J Silicon,NPN,2SC380 O     | AC   | ZD601         | VHEMTZJ5R6B-1   |                |  | A D  |
| Q603       |               | J Digital, NPN, DTC114 YS  | AB   | ZD801,802     | VHEMTZJ160A-1   |                |  | AΒ   |
| Q604       |               | J Silicon,NPN,2SC2001 L    | AB   | ZD803         | VHEMTZJ5R6B-1   |                | •  | A D  |
| Q605       |               | J Silicon, NPN, 2SC1740 SR | ÁΒ   | ZD804~806     | VHEMTZJ130C-1   | J Zener,13     | BV,MTZJ13C                               | AB   |
| Q606~609   |               | J Silicon, NPN, 2SC2785 EF | AΒ   |               |                 |                | ** |      |
| Q610,611   |               | J Silicon, NPN, 2SC380 O   | A C  |               | FILT            | ERS            |  |      |
| Q612       |               | J Digital, PNP, DTA144 WS  | A C  |               |                 |                | •  |      |
| Q613,614   | VSDTA114ES/~1 | J Digital, PNP, DTA114 ES  | ΑВ   | CF601,602     | RFILF0072AFZZ   | J-FM-IF [      | H]                                       | AG   |
| Q615~617   | VSDTC114YS/-1 | J Digital, NPN, DTC114 YS  | AΒ   | CF601,602     | RFiLF0166AFZZ   | J FM IF        | E]                                       | A C  |
| Q619~621   | VS2SC1740SR-1 | J Silicon, NPN, 2SC1740 SR | ΑВ   | L610          | RFiLL0075AFZZ   | J Low Pa       | ss Filter [H Onlv]                       | ΑF   |
| Q701       | VSDTC114YS/-1 | J Digital, NPN, DTC114 YS  | ΑВ   | L611,612      | RCiLL0105AFZZ   |                |  | ΑE   |
| Q702,703   |               | J Digital, PNP, DTA114 ES  | ΑВ   | ∆L901         | RCiLZ0216AFZZ   |                |  | AG   |
| Q704,705   |               | J Silicon, PNP, 2SA933 SR  | AB   | T601          | RFiLA0121AFZZ   |                |  | ΑF   |
| Q706~710   |               | J Digital, NPN, DTC114 YS  | ΑB   |               |                 | 3 74 11        |  | 77.1 |
| Q711,712   |               | J Silicon, NPN, 2SC1740 SR | A B  |               | TRANSFO         | DMEDC          | 14 to 15 to 15                           |      |
| Q713       |               | J Digital, NPN, DTC114 YS  | AB   |               | ITARIOT         | JK WERS        | •  |      |
| Q714       |               | J Silicon, NPN, 2SC1740 SR | AB   | /\T901        | RTRNP1616AFZZ   | I Daway I      | ·c1                                      | D D  |
| Q715       |               |                            |      |               |                 |                |  | ВВ   |
|            |               | J Silicon,NPN,2SC2001 L    | AB   | <b>⚠</b> T901 | RTRNP1617AFZZ   | J Power I      | .H.]                                     | ВВ   |
| Q801~804   |               | J Silicon, NPN, 2SC1740 SR | AB   | •             |                 |                |  |      |
| Q805       |               | J Silicon, NPN, 2SD2061 F  | AG   | •             | COI             | LS             |  |      |
| Q806       |               | J Silicon,PNP,2SB1185 F    | AK   |               |                 |                | *  |      |
| Q807       |               | J Digital, PNP, DTA114 ES  | AB   | L1 '          | RCiLB0724AFZZ   |                |  | ΑĐ   |
| Q808       |               | J Digital, NPN, DTC114 YS  | AB   | L281,282      | VP-YF682J0000   | J 6.8 mH       |  | AB   |
| Q809       |               | J Silicon,PNP,2SA970 BL    | A C  | L401          | VP-DH101K0000   | J 100 μH,      | Choke                                    | AΒ   |
| Q810,811   | VSDTC114YS/-1 | J Digital, NPN, DTC114 YS  | AΒ   | L402,403      | VP-CH101K0000   | J 100 μH,      | Choke                                    | AB   |
| Q812       | VS2SD1225MR-1 | J Silicon, NPN, 2SD1225 MR | A C  | L404,405      | VP-DH101K0000   | J 100 μH,      |  | AB   |
| Q813       | VS2SC1740SR-1 | J Silicon, NPN, 2SC1740 SR | AΒ   | L406          | VP-DHR22M0000   |                |  | AB   |
| Q814~816   | VS2SD1764//-1 | J Silicon, NPN, 2SD1764    | АН   | L407,408      | VP-DH101K0000   | J 100 μH,      |  | ΑВ   |
|            |               |                            |      | L501          | VP-DHR22M0000   |                | Choke [H Only]                           | AB   |
|            | DIOI          | DES                        |      | L602          | RBLN-0051AFZZ   |                |  | ΑE   |
|            |               |                            |      | L603          | VP-DH2R2M0000   | J 2.2 µH,0     |  | AB   |
| D1         | VHD1SS181//-1 | J Silicon 1SS181           | ΑВ   | L604          | VP-CH2R2M0000   | J 2.2 µH,0     |  | AB   |
| D3         | VHD1SS184//-1 |                            | AB   | L604          | VP-DH2R2M0000   | J 2.2 μH,0     |  |      |
| D5         | VHD1SS181//-1 |                            | AB   | L605          |                 |                |  | AB   |
| D6         | VHD1SS184//~1 |                            | AB   |               | RCiLA1064AFZZ   | J Antenna      |  | A D  |
| D7         |               |                            |      | L606          |                 | J Antenna      |  | A D  |
| :          |               | J Silicon,1S2076RE         | AA   | L607          | RCiLB1074AFZZ   |                |  | A C  |
| D8,9       | VHD1SS184//~1 | J Silicon,1SS184           | AB   | L608          | RCiLB1073AFZZ   | J OSC,LW       |  | A C  |
| D10        | VHCSVC203//3F | J Variable Capacitance,    | A D  | L609          | RCiLD0108AFZZ   |                |  | ΑK   |
|            |               | SVC203                     |      | L613          |                 |                | Choke [H Only]                           | AB   |
| D20~23     | VHD11ES1TB3-1 | J Silicon,11ES1TB3         | AΑ   | L614          | VP-DHR22M0000   |                |  | AΒ   |
| D201~204   | VHD1SS133//-1 |                            | AΑ   | L615          | VP-DH101K0000   | J 100 $\mu$ H, | Choke [H Only]                           | ΑВ   |
| D206~208   | VHD1SS133//-1 |                            | AΑ   | L701,702      | RCiLC0094AFZZ   | J 6.8 mH       |  | A D  |
| D210       | VHD1SS133//-1 | J Silicon, 1SS133          | AΑ   | L703,704      | RCiLZ0143AFZZ   | J 47 mH, E     | lias Trap                                | AB   |
| D212       | VHD1SS133//-1 | J Silicon, 1SS133          | A A  | L705          | VP-CH561K0000   |                |  | AB   |
| D301~303   | VHD1SS133//-1 | J Silicon, 1SS133          | AΑ   | L706          | VP-DHR22M0000   |                |  | AΒ   |
| D330       | VHD1SS133//-1 | J Silicon, 1SS133          | АА   | L707          | VP-MK471K0000   |                |  | АВ   |
| D401~414   | VHD1SS133//-1 | J Silicon,1SS133           | АА   | L708          | VP-CH2R2M0000   |                |  | AB   |
| D501~504   | VHD1SS133//-1 | J Silicon,1SS133           | AA   | L709          | VP-DHR22M0000   |                |  | AB   |
| D601,602   | VHD1SS133//-1 |                            | AA   | L801,802      | RCiLZ0137AFZZ   |                |  | AA   |
| D603~605   |               | J Silicon,1SS133 [H Only]  | AA   | L804          | VP-DH2R2M0000   |                |  |      |
| D606~610   | VHD1SS133//-1 |                            | AA   | L805          |                 |                |  | AB   |
| D701~717   | VHD1SS133//-1 |                            | AA   | Laus          | VP-DHR22M0000   | J 0.22 μΠ,     | Choke [H Only]                           | AB   |
| D801,802   | VHD1SS133//-1 | •                          |      |               | CONT            | 201.0          |  |      |
| D803       |               | •                          | AA   |               | CONTR           | KOES           |  |      |
|            | VHD11ES1///-1 |                            | AB   | TOGOL         |                 |                |  |      |
| D805,806   | VHD11ES1///-1 |                            | AB   | TC601         | RTO-H1072AFZZ   |                |  | A C  |
| D807~809   | VHD1SS133//-1 |                            | AA   | TC602         | RTŌ-H1069AFZZ   | J Trimmer      | ,60 pF,AM                                | A D  |
| D810,811   | VHDS4VB20//-1 |                            | A G  |               | ,               | Anten          |  |      |
| LED1       | VHPLT3P8D//-1 |                            | AB   | VR1           | RVR-M0895AFZZ   |                |  | AΒ   |
| LED280     |               | J LED,Red,SLR-54VC5        | AB   | VR2           | RVR-M0896AFZZ   | J 50 kohm      | s (B),Semi-VR                            | ΑВ   |
| LED401~410 | VHPGL5HS45/-1 |                            | AB   | VR3,4         | RVR-M0897AFZZ   | J 100 kohr     | n (B),Semi-VR                            | ΑB   |
| LED411,412 | VHPSLR54VC3-1 | J LED,Red,SLR54VC3         | AD   | VR5           | RVR-M0895AFZZ   |                |  | AB   |
| LED413~421 | VHPGL5HS45/-1 | J LED,GL-5HS45             | ΑB   | VR401~405     | RVR-W0007AFZZ   |                |  | ΑE   |
| LED422     | VHPTLR205//-1 |                            | ΑB   |               |                 | Equali         |  |      |
| VD601/602  |               | J Variable Capacitance,    | AS   | VR407         | RVR-B0344AFZZ   | •              |  | ΑE   |
|            |               | KV1236Z23F                 |      | VR408         | RVR-A0238AFZZ   |                |  | AT   |
| ZD10,11    | VHEHZ9B1L//-U |                            | АА   |               |                 |                | Volume                                   | A I  |
| ZD201      |               | J Zener,5.6V,MTZJ5.6B      | AD   | VR601         | RVR-M0394AFZZ   |                |  | ÁВ   |
| ZD301      |               | J Zener,5.1V,MTZJ5.1B      | AC   | VR701~704     | RVR-M0394AFZZ   |                |  | A B  |
|            |               |                            | ا ب  | FREEZ STOT    | TAN MOSCAULT    | 2 2 VOLUMS     | א א – וווופט ילבי                        | A D  |

|                                  |                            |          |  |            |            |               |     | RP-302H/E                   | CP-302 |
|----------------------------------|----------------------------|----------|--|------------|------------|---------------|-----|-----------------------------|--------|
| REF.NO.                          | PART NO.                   | *        | DESCRIPTION  | CODE       | REF.NO.    | PART NO.      | *   | DESCRIPTION                 | CODE   |
| VR705,706                        | DVD_M0301AE77              | 1.10     | kohm (B),Semi-VR   | AB         | C63        | VCTYMN1CY103K | - 1 | 0.01 "F 16V                 | AA     |
| VR703,708<br>VR707,708           |                            |          | kohms (B),Semi-VR  | ΑB         | C64        | VCKYMN1HB102K |     |                             | AA     |
| '                                |                            |          | kohm (B),Semi-VR   | AB         | C65        | VCTYMN1CX682K |     |                             | AA     |
| VR709,710                        | NVN-MOSSIM ZZ              | . 3 10   | Komin (D), Seint VIV   | Λ.         | C66        | VCFYHA1HA823J |     | 0.082 μF,50V,Thin Film      | AB     |
|                                  | Miph                       | ATORS    |  |            | C67        | VCKYMN1HB101K |     |                             | AA     |
|                                  | VIDR                       | HIUKS    |  |            | C68        |               |     | 1 μF,50V,Electrolytic       | AB     |
| 05503                            | DODM 00C1AE77              |          | romio 10 050 kHz   | AG         | C69        | VCKYMN1HB471K |     |                             | AA     |
| CF603                            | RCRM-0061AFZZ              |          |  | AF         | C70        |               |     | 0.1 µF,50V,Electrolytic     | AB     |
| X1                               | RCRSB0128AFZZ              |          |  | AK         | C71        |               |     | 22 μF,16V,Electrolytic      | AB     |
| X301                             | RCRSP0051AFZZ              |          |  |            | C71        | VCKYMN1HB471K |     |                             | AA     |
| X302                             | RCRM-0062AFZZ              |          |  | A G<br>A E | C72        | VCTYPA1CX333K |     |                             | AA     |
| XL401                            | RCRM-0013AFZZ              |          |  |            |            |               |     |                             | AA     |
| . 501                            | RCRSB0146AFZZ              | . J Cr   | ystal, 7.2 MHz   | АН         | C74        | VCCSMNIHL220J |     | 22 pF,50V                   | AB     |
|                                  |                            |          |  |            | C75        |               |     | 0.1 μF,50V,Electrolytic     | AB     |
|                                  | CAPA                       | CITORS   | 5  |            | C76<br>C77 |               |     | 0.1 μF,16V<br>68 pF,50V     | AA     |
|                                  |                            |          | at a town and the distance of the state of t |            | C78        | VCCSMN1HL680J |     | 27 pF,50V                   | AA     |
|                                  |                            | паріе ап | d they can be identified fro   | om each    |            | VCCSMN1HL270J |     | •                           | AB     |
| -                                | ing their Part Numbers.    |          |  |            | C79        | VCFYHA1HA473J |     | 0.047 μF,50V,Thin Film      |        |
| <ul> <li>Ceramic type</li> </ul> |                            |          |  | ,,,,,,     | C80        | VCTYPA1CX104K |     |                             | AB     |
|                                  | C" or "K" is given at the  | 3rd digi | t of its Part Number like "  | VCC (or    | C81        |               |     | 10 μF,16V,Electrolytic      | AB     |
| K)······J.''                     |                            |          |  |            | C82        |               |     | 220 μF,6.3V,Electrolytic    | AB     |
|                                  | tor type capacitor:        |          |  |            | C83        |               |     | 2.2 μF,50V,Electrolytic     | ΑB     |
|                                  |                            |          | s Part Number like "VCT  |            | C84        | VCKYMN1HB102K |     |                             | A A    |
|                                  |                            |          | icated by the symbol give  |            | C85        | VCTYPA1CX104K |     |                             | AB     |
|                                  |                            |          | ±5%), ''K'' (±10%), ''M'' (  | ±20%),     | C86        |               |     | 4.7 μF,25V,Electrolytic     | AB     |
|                                  | "C" (±0,25 pF), "D" (=     |          |  |            | C87,88     | VCTYMN1CY123M |     |                             | AA     |
|                                  |                            |          | by the symbol TV(TQ/CY   |            | C89        | VCTYMN1CX222K |     |                             | AA     |
|                                  |                            |          | CY) does not mean the lea  |            | C90        |               |     | 47 $\mu$ F,16V,Electrolytic | AB     |
|                                  |                            |          | by the symbol MF(MN) of  | the part   | C91        | VCTYMN1CX222K |     |                             | AA     |
|                                  |                            |          | not mean the lead wire.)   |            | C92        |               |     | 47 μF,16V,Electrolytic      | AB     |
| Unless otherw                    | ise specified, electrolyti | c capaci | itors are $\pm 20\%$ type.   |            | C93        | VCTYPA1CX104K |     |                             | A B    |
|                                  |                            |          |  |            | C95        | VCTYMN1EF223Z |     |                             | AA     |
| C1                               | RC-GZA337AF0J              | J 330    | μF,6.3V,Electrolytic   | AB         | C201       |               |     | 0.1 μF,50V,Electrolytic     | ΑВ     |
| C2                               | RC-GZA107AF1A              | J 100    | μF,10V,Electrolytic  | AΒ         | C202       | VCCSMN1HL33DJ |     |                             | AA     |
| C3,4                             | RC-GZA105AF1H              | J 1 μ    | F,50V,Electrolytic   | AB         | C203~208   | VCKYMN1HB101K | J   | 100 pF,50V                  | АА     |
| C5                               | RC-GZA225AF1H              | J 2.2    | $\mu$ F,50V,Electrolytic   | AB         | C209,210   | VCTYMN1EF223Z |     |                             | AΑ     |
| C6                               | RC-EZY225AF1H              | J 2.2    | μF,50V,Electrolytic  | AB         | C211~213   | VCTYMN1CY103M |     |                             | АА     |
| C7                               | RC-GZA476AF1C              | J 47     | μF,16V,Electrolytic  | AB         | C214       |               |     | 100 μF,10V,Electrolytic     | AB     |
| C8                               | VCKZPA1HF103Z              | J 0.0    | 1 μF,50V   | AA         | C215       | VCTYMN1EF223Z |     | • •                         | AA     |
| C9,10                            | VCCCMN1HH2R7C              |          |  | AA         | C216       | RC-GZA106AF1C | J   | 10 μF,16V,Electrolytic      | A B    |
| C13,14                           | VCFYHA1HA823J              | J 0.0    | 82 $\mu$ F,50V,Thin Film   | AB         | C217       | VCTYMN1EF223Z | J   | 0.022 μF,25V                | A A    |
| C15,16                           | VCQYKA1HM272J              |          |  | AB         | C218       | RC-EZD106AF1C | J   | 10 μF,16V,Electrolytic      | AB     |
| C17,18                           | VCQPKA2AA123J              |          |  | AB         | C281,282   | VCTYPA1EX122K |     |                             | A B    |
|                                  |                            | F        | Polypropylene  |            | C283,284   | VCKYPA1HB471K |     |                             | AA     |
| C21,22                           | RC-GZA106AF1C              |          |  | AB         | C285,286   | VCTYPA1EX332K |     |                             | AA     |
| C23,24                           | VCE9AA1CF106N              | J 10     | μF,16V,Electrolytic,Non  | AB         | C289,290   | VCTYPA1EX472K |     |                             | AA     |
|                                  |                            | -        | -polar   |            | C301       |               |     | 22 μF,16V,Electrolytic      | AΒ     |
| C25,26                           | VCTYMN1CX122K              | J 0.0    | 012 μF,16V   | AΑ         | C302~304   | VCTYMN1CY103M |     |                             | AA     |
| C27                              | VCKZPA1HF473Z              | J 0.0    | 47 μF,50V  | AA         | C305,306   | VCCCMN1HH200J | J   | 20 pF (CH),50V              | AΑ     |
| C29,30                           | VCTYMN1EF2232              | J 0.0    | 22 μF,25V  | AA         | C307~309   | VCKYMN1HB101K | J   | 100 pF,50V                  | AA     |
| C31,32                           | RC-EZ1477AFZZ              | J 220    | 00 μF,25V,Electrolytic   | ΑE         | C310       | VCCSMN1HL330J | J   | 33 pF,50V                   | AA     |
| C33,34                           | RC-GZA335AF1H              | J 3.3    | $\mu$ F,50V,Electrolytic   | AΒ         | C311       |               |     | 0.47 μF,50V,Electrolytic    | AΑ     |
| C35,36                           | RC-GZA107AF1A              | . J 100  | μF,10V,Electrolytic  | AB         | C312       | VCTYMN1CY103M |     |                             | AΑ     |
| C37                              | RC-GZA474AF1H              | J 0.4    | 7 μF,50V,Electrolytic  | AΑ         | C330       | RC-GZA105AF1H | J   | 1 μF,50V,Electrolytic       | AΒ     |
| C39                              | VCTYMN1EF223Z              | J 0.0    | 22 μF,25V  | AΑ         | C331       | RC-GZA106AF1C | J   | 10 μF,16V,Electrolytic      | A B    |
| C40,41                           | VCCCMN1HH180J              | J 18     | pF (CH),50V  | ΑA         | C332,333   | VCCSMN1HL300J | J   | 30 pF,50V                   | AΑ     |
| C42                              | VCKYMN1HB101K              | J 100    | pF,50V   | AA         | C401,402   | VCKYMN1HB101K | J   | 100 pF,50V                  | AA     |
| C43                              | RC-GZA225AF1H              | J 2.2    | μF,50V,Electrolytic  | AB         | C403,404   | VCKYMN1HB151K |     |                             | AA     |
| C44,45                           | VCTYMN1CY103K              | J 0.0    | I μF,16V   | AA         | C405,406   | RC-GZA476AF1C | J   | 47 μF,16V,Electrolytic      | AB     |
| C46                              | VCKYMN1HB471K              | J 470    | pF,50V   | AA         | C407,408   | VCTYMN1EF223Z | J   | 0.022 μF,25V                | A A    |
| C47,48                           | RC-GZA105AF1H              |          |  | ΑB         | C409,410   | VCKYMN1HB151K |     |                             | A A    |
| C49                              | VCTYMN1CX272K              |          |  | ΑА         | C411,412   | RC-GZA106AF1C | J   | 10 μF,16V,Electrolytic      | ΑВ     |
| C50                              | VCTYMN0JY153M              |          |  | AA         | C413,414   |               |     | 0.68 μF,50V,Electrolytic    | AΒ     |
| C51,52                           | VCCSMN1HL680J              |          |  | ΑА         | C415,416   |               |     | 0.056 µF,50V,Thin Film      | AB     |
| C53                              | VCTYMN1CX152K              |          |  | A A        | C417,418   |               |     | 0.15 μF,50V,Electrolytic    | АА     |
| C54                              |                            |          | μF,25V,Electrolytic  | AB         | C419,420   | VCQYKA1HM183K |     |                             | AB     |
| C55                              | VCCSMN1HL1R0C              |          |  | AA         | C421,422   | VCQYKA1HM333K |     |                             | АВ     |
| C56                              | VCCSMN1HL560J              |          |  | AA         | C423,424   |               |     | 0.0056 µF,50V,Mylar         | AA     |
| C57~59                           | RC-GZA476AF1C              |          |  | АВ         | C425,426   |               |     | 0.0082 μF,50V,Mylar         | АА     |
| C60                              | VCTYMN1EF223Z              |          |  | AA         | C427,428   |               |     | 0.0012 µF,50V,Mylar         | AA     |
| C61,62                           | VCCSMN1HL390J              |          |  | AA         | C429,430   | _             |     | 0.0033 µF,50V,Mylar         | AA     |
| ,                                |                            |          | -  | ·          |            |               |     |                             |        |

| RP-302H/I            | E CP-302                                |   |            |                      |               |   |            |
|----------------------|---|---|------------|----------------------|---------------|---|------------|
| REF.NO.              | PART NO.                                | * DESCRIPTION                                     | CODE       | REF.NO.              | PART NO.      | ★ DESCRIPTION   | CODE       |
| C431,432             | VCKYPA1HB221K                           | J 220 pF.50V                                      | AA         | C626                 | VCTYMN1EF223Z | J 0.022 µF,25V  | A'A        |
| C433,434             |   | J 0.1 μF,50V,Electrolytic                         | AB         |                      | VCCUMN1HJ270J |   | AA         |
| C435,436             |   | J 0.01 μF,16V                                     | AA         | C628                 | VCKYPA1HB471K |   | AA         |
| C437,438             |   | J 0.47 µF,50V,Electrolytic                        | AB         | C629                 | VCCCMN1HH180J |   | AA         |
| C439                 | RC-EZD336AF1C                           | J 33 μF,16V,Electrolytic                          | A B        | C630                 | VCKYPA1HB681K |   | AA         |
| C440                 | :VCKZPA1HF473Z                          |   | AA         | C631                 | VCCCMN1HH180J |   | AA         |
| C441,442             | RC-GZA106AF1C                           | J 10 μF,16V,Electrolytic                          | AB         | C632                 | VCTYMN1EF223Z |   | A.A        |
| C443                 | VCTYMN1EF223Z                           | J 0.022 μF,25V                                    | A A        | C633                 | VCKYPA1HB221K |   | AA         |
| C444                 | VCTYMN1CY103M                           | J 0.01 μF,16V                                     | AA         | C634                 | VCCUMN1HJ270J |   | AΑ         |
| C445                 | VCTYMN1EF223Z                           | J 0.022 μF,25V                                    | AA.        | C635                 | VCTYMN1EF223Z | J 0.022 μF,25V  | AA         |
| C446                 |   | J 47 μF,16V,Electrolytic                          | AB         | C636                 | VCCSMN1HL330J | J 33 pF,50V   | AA         |
| C447                 | VCTYMN1EF223Z                           |   | AA         | C637                 | RC∃GZA105AF1H | J 1 μF,50V,Electrolytic                               | A B        |
| C448,449             | VCCSMN1HL470J                           | • •   | AA         | C638                 |               | J 10 μF,16V,Electrolytic                              | ΑВ         |
| C450                 | VCTYMN1EF223Z                           |   | AA         | C639~643             | VCTYMN1EF223Z |   | AA         |
| C451                 |   | J 47 μF,10V,Electrolytic                          | AC         | C644,645             |               | J 1 $\mu$ F,50V,Electrolytic                          | ΑВ         |
| C452                 | VCTYMN1EF223Z                           |   | AA         | C646                 | VCTYMN1CY103M |   | АА         |
| C453,454             |   | J 10 μF,16V,Electrolytic                          | AB         | C647                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| C455,456             |   | J 330 pF,50V [H Only]                             | AA         | C648                 | VCTYMN1CY103M |   | A-A        |
| C501,502<br>C503,504 | VCKYMN1HB101K<br>VCKYMN1HB561K          |   | AA         | C649                 | VCKYMN1HB101K |   | AA         |
| C505,504             |   |   | A A<br>A B | C650                 | VCKZPA1HF473Z | J 0.047 μF,50V  | AA         |
| C503,508             |   | J 47 μF,16V,Electrolytic<br>J 0.0082 μF,50V,Mylar | A A        | C651<br>C652         | VCTYMN1EF223Z | J 100 μF,16V,Electrolytic                             | AB         |
| C509,510             |   | J 0.0022 μF,50V,Mylar                             | AA         |                      |               |   | AA         |
| C511,512             |   | J 0.47 μF,50V,Electrolytic                        | AA         | C654                 | VCTYMN1EF223Z | J 10 μF,16V,Electrolytic                              | A B<br>A A |
| C513,514             | VCTYMN1EF223Z                           |   | AA         | C655                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| C515,516             |   | J 47 μF,16V,Electrolytic                          | AB         | C656                 | VCTYMN1EF223Z |   | AA         |
| C517~520             | VCKYMN1HB101K                           |   | AA         | C657                 | VCKYMN1HB151K |   | AA         |
| C521                 |   | J 100 pF,50V [H Only]                             | AA         | C658                 |               | J 10 μF,16V,Electrolytic [H                           |            |
| C522,523             |   | J 0.001 μF,50V [H Only]                           | AA         |                      |               | Only]   |            |
| C525,526             |   | J 47 μF,16V,Electrolytic                          | AB         | C659                 | VCTYMN1EF223Z |   | АА         |
| C527,528             | VCTYMN1EF223Z                           | J 0.022 μF,25V                                    | AA         | C660                 | VCCSMN1HL330J |   | AA         |
| C529,530             | RC-GZA105AF1H                           | J 1 μF,50V,Electrolytic                           | AΒ         | C661,662             | VCTYMN1EF223Z | J 0.022 μF,25V  | AΑ         |
| C531,532             | VCKYMN1HB101K                           | J 100 pF,50V                                      | AA         | C663                 | VCKYBT1HB102K |   | AA         |
| C533,534             | VCKYMN1HB151K                           | J 150 pF,50V                                      | AA         | C664                 | RC-GZA104AF1H | J 0.1 μF,50V,Electrolytic                             | AB         |
| C535,536             | VCTYMN1EF223Z                           |   | AA         | C665                 |               | J 10 μF,16V,Electrolytic                              | AB         |
| C537,538             |   | J 4.7 μF,50V,Electrolytic                         | AB         | C666                 |               | J 22 pF,50V [H Only]                                  | AA         |
| C539,540             |   | J 47 μF,16V,Electrolytic                          | AB         | C667                 |               | J 68 pF,50V [H Only]                                  | AA         |
| C541,542             |   | J 1 μF,50V,Electrolytic                           | AB         | C668                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| C543,544             | VCFYHA1HA224J                           | J 0.22 μF,50V,Thin Film [E]                       | AC         | C669                 |               | J 0.22 μF,50V,Electrolytic                            | AA         |
| C543,544             |   | J 0.22 μF,50V,Thin Film [H]                       | AC         | C670                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| C545,546             |   | J 0.68 μF,50V,Electrolytic                        | A B        | C671                 |               | J 10 μF,16V,Electrolytic                              | AB         |
| C547,548             |   | J 0.022 µF,50V,Mylar                              | AB         | C672                 | VCTYPA1EX473K |   | AA         |
| C549,550<br>C551,552 | VCTYMN1EF223Z                           | J 0.68 μF,50V,Electrolytic                        | AB         | C673<br>C674         | VCKYMN1HB102K |   | AA         |
| C553,554             |   | J 47 μF,16V,Electrolytic                          | A A<br>A B | C675                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| C555                 |   | J 3.3 μF,50V,Electrolytic                         | AB         | C676                 | VCTYMN1EF223Z |   | AA         |
| C601                 | VCTYMN1EF223Z                           |   | AA         | C677                 |               | J 100 μF,16V,Electrolytic<br>J 10 μF,16V,Electrolytic | A B<br>A B |
| C602                 |   | J 1 μF,50V, Electrolytic [H                       | AB         | C678                 |               | J 1 μF,50V,Electrolytic                               | AB         |
| 0000                 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Only]   |            | C679,680             | VCKYPA1HB391K |   | AA         |
| C603                 | VCTYMN1EF223Z                           | J 0.022 μF,25V [H Only]                           | A A        | C679,680             | VCTYPA1EX102K |   | AA         |
| C604                 |   | J 1 μF,50V,Electrolytic [H                        | AB         | C681,682             |               | J 1 μF,50V, Electrolytic                              | АВ         |
|                      |   | Only]   |            | C683,684             | VCTYPA1EX332K |   | AA         |
| C605                 | VCTYMN1EF223Z                           | J 0.022 μF,25V [H Only]                           | AΑ         | C685,686             |               | J 0.022 μF,25V [H Only]                               | AA         |
| C606                 | VCCSBT1HL330J                           | J 33 pF,50V [H Only]                              | AA         | C688                 |               | J 47 μF,16V,Electrolytic                              | ΑВ         |
| C607~610             | VCTYMN1EF223Z                           |   | AA         | C689                 | VCTYMN1EF223Z | J 0.022 μF,25V  | AA         |
| C611                 | VCKYMN1HB101K                           |   | AA         | C690                 | VCKZPU1HF223Z | J 0.022 μF,50V [H Only]                               | AA         |
| C612                 | VCTYMN1EF223Z                           |   | AA         | C703                 | RC-GZA476AF1E | J 47 μF,25V,Electrolytic                              | AB         |
| C613                 |   | J 47 μF,16V,Electrolytic                          | AB         | C704,705             |               | J 1 μF,50V,Electrolytic                               | AB         |
| C614                 | VCTYMN1EF223Z                           | , ,   | AA         | C706                 |               | J 4.7 μF,25V,Electrolytic                             | AΒ         |
| C615                 |   | J 47 μF,16V,Electrolytic                          | AB         | C707,708             | VCKYPA1HB681K | • •   | AA         |
| C617                 | VCKYBT1HB101K                           |   | AA         | C709,710             | VCKYPA1HB561K |   | AA         |
| C618                 | VCKYBT1HB331K                           | •   | AA         | C711~714             | VCKYBT1HB151K | • •   | AA         |
| C619<br>C620         | VCCCMN1HH180J                           | *           | AA         | C715,716             |               | J 100 μF,10V,Electrolytic                             | AB         |
| C620<br>C621         | VCCCMN1HH150J<br>VCKYMN1HB102K          |   | AA         | C717,718<br>C719,720 |               | J 22 μF,25V,Electrolytic                              | A B        |
| C622                 |   | J 2.2 μF,50V,Electrolytic                         | AB         | C719,720<br>C721,722 |               | J 47 μF,10V,Electrolytic                              | AB         |
| 0024                 | WO GEWEEDWEIL                           | [E]   | V D        | C721,722<br>C723,724 | VCTYPA1EX183K |   | AA         |
| C622                 | VCFYHA1HA334 I                          | J 0.33 μF,50V,Thin Film [H]                       | A C        | C725,724             | VCTYPA1EX333K | J 1 μF,50V,Electrolytic                               | A A<br>A B |
| C624                 | VCCUMN1HJ100J                           |   | AA         | C727,728             | VCTYPA1EX153K |   | AA         |
| C625                 | VCKZPA1HF473Z                           |   | AA         | C729,730             | VCTYBT1EF223Z |   | AA         |
|                      |   |   |            |                      |               | - John per year                                       | A PL       |

| REF.NO.              | PART NO.                       | ★ DESCRIPTION                 | CODE       | REF.NO.           | PART NO.                  | ★ DESCRIPTION   | CODE       |
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|                      |                                |                               |            |                   |                           |   |            |
| C731                 | RC-GZA226AF1E                  | J 22 μF,25V,Electrolytic      | AB         | C857              |                           | J 47 μF,25V,Electrolytic  | AB         |
| C733,734             | RC-GZA105AF1H                  | J 1 μF,50V,Electrolytic       | AB         | C858              |                           | J 220 μF,25V,Electrolytic                                       | AB         |
| C735,736             | VCKYBT1HB391K                  |                               | AA         | C859              |                           | J 47 $\mu$ F,25V,Electrolytic<br>J 220 $\mu$ F,25V,Electrolytic | AB         |
| C737,738             | VCCSBT1HL470J                  | J 47 pF,50V                   | AA         | C860              |                           |   | AB         |
| C739,740             | RC-GZA105AF1H                  | J 1 μF,50V,Electrolytic       | AB         | C861              |                           | J 2200 μF,25V,Electrolytic                                      | A E<br>A B |
| C741,742             | VCCSBT1HL470J                  | J 47 pF,50V                   | A A<br>A B | C862,863          |                           | J 0.22 μF,50V,Mylar [H]   | AB         |
| C743,744             | RC-GZA475AF1E                  | J 4.7 μF,25V,Electrolytic     |            | C862,863          |                           | J 0.047 μF,50V,Mylar [E]  | AA         |
| C745,746             | RC-GZA224AF1H                  |                               | AA         | C864              | VCKZPA1HF473Z             |   |            |
| C747~749             |                                | J 1 μF,50V,Electrolytic       | AB         | C865,866          |                           | J 0.047 μF,50V [H Only]   | A A<br>A A |
| C750                 | RC-GZA476AF1E                  |                               | AB         | C867~870<br>↑C901 |                           | J 100 pF,50V [H Only]<br>J 0.047 μF,250V,Metallized             | AE         |
| C751,752             | VCKYPA1HB151K                  | , ,                           | A A<br>A A | WC301             | NC-FZIU4EAFZZ             | Plastic   | AL         |
| C753,754             | VCKYBT1HB561K                  | • •                           | AB         |                   |                           | Flastic   |            |
| C755,756             |                                | J 10 μF,50V,Electrolytic      | AA         |                   | RESIS                     | TOPS  |            |
| C757,758<br>C759,760 | RC-GZA224AF1H<br>VCKYBT1HB151K | J 0.22 μF,50V,Electrolytic    | AA         |                   | KESIS                     | TORS  |            |
| C761,762             |                                | J 10 μF,50V, Electrolytic     | AB         | (Unless other     | wise specified, resistors | are ±5%,carbon type.) (Tubula                                   | r type     |
| C763,764             |                                | J 4.7 μF,25V,Electrolytic     | AB         | carbon film re    | sistor ±5% is identified  | the symbol TV(TQ/CY) of the pa                                  | rt NO.     |
| C765                 | VCKZPA1HF473Z                  |                               | AA         | VRS-TV(TQ/        | CY)0000000; this TV(TQ    | (CY) does not mean lead wire.)                                  |            |
| C766                 |                                | J 0.001 μF,50V,Mylar          | AA         | (Tubular type     | carbon film resistor ±5%  | % is identified the symbol MF(MN)                               | of the     |
| C767                 |                                | J 0.047 μF,50V,Mylar          | AB         | part NO. VRD      | -MF(MN)0000000; this      | MF(MN) does not mean lead wire                                  | e.)        |
| C768                 | VCQPKA2AA822J                  |                               | AA         |                   |                           |   | -          |
| C/06                 | VOGERAZAMOZZJ                  | Polypropylene                 | 7.7        |                   | VRD-MN2BD000C             | J 0 ohm,1/8W,Jumper   | АА         |
| C769                 | VCOVKA1HM473K                  | J 0.047 μF,50V,Mylar          | ΑВ         | J1,2              | VRS-TV2AB000J             | J 0 ohm, Jumper, Metal Oxide                                    | AA         |
| C770                 |                                | J 10 μF,50V,Electrolytic      | AB         |                   |                           | Film  |            |
| C770<br>C771,772     |                                | J 1 μF,50V,Electrolytic       | AB         | R1,2              | VRD-MN2BD103J             | J 10 kohm,1/8W  | AA         |
| C771,772             |                                | J 22 μF,25V,Electrolytic      | AB         | R3,4              | VRD-MN2BD471J             | J 470 phms,1/8W   | AA         |
| C774                 |                                | J 10 μF,50V,Electrolytic      | AB         | R5,6              | VRD-MN2BD15IJ             | J 150 ohms, 1/8W  | AA         |
| C774<br>C775,776     |                                | J 33 μF,25V,Electrolytic      | AB         | R7~10             | VRD-MN2BD102J             | J 1 kohm,1/8W   | AA         |
|                      | VCKYBT1HB151K                  |                               | AA         | R11,12            | VRD-MN2BD103J             | J 10 kohm,1/8W  | AA         |
| C777,778<br>C779,780 |                                | J 100 μF,16V,Electrolytic     | AB         | R13,14            | VRD-MN2BD104J             | J 100 kohm,1/8W   | AA         |
| C781                 |                                | J 0.047 μF,50V [H Only]       | AA         | R15,16            | VRD-MN2BD103J             | J 10 kohm,1/8W  | AA         |
| C782                 |                                | J 0.022 μF,50V [H Only]       | AA         | R17,18            | VRD-MN2BD123J             | J 12 kohms,1/8W   | AA         |
| C783                 |                                | J 220 μF,25V,Electrolytic     | AB         | R19,20            | VRD-MN2BD104J             | J 100 kohm,1/8W   | AA         |
| C784                 |                                | J 10 μF,50V,Electrolytic      | AB         | R21,22            | VRD-MN2BD122J             | J 1.2 kohms,1/8W  | AA         |
| C785                 |                                | J 0.022 μF,50V [H Only]       | AA         | R23               | VRS-TV2AB472J             | J 4.7 kohms, 1/10W, Metal                                       | AA         |
| C788                 |                                | J 0.022 μF,50V [H Only]       | AA         |                   |                           | Oxide Film  |            |
| C801,802             |                                | J 3.3 μF,50V,Electrolytic     | AB         | R24,25            | VRD-MN2BD223J             | J 22 kohms,1/8W   | AA         |
| C803,804             | VCKYBT1HB331K                  | 1 330 pF 50V                  | AA         | R26,27            | VRD-MN2BD102J             | J 1 kohm,1/8W   | AA         |
| C805,806             | VCKYBT1HB221K                  |                               | AA         | R28~30            | VRD-MN2BD563J             | J 56 kohms,1/8W   | AA         |
| C807,808             |                                | J 47 μF,35V,Electrolytic,Non  | AC         | R31               | VRD-MN2BD104J             | J 100 kohm,1/8W   | AA         |
| 0007,000             | *OE3///14/1 4/0m               | -Polar                        | 71.0       | R32               | VRD-MN2BD683J             | J 68 kohms,1/8W   | AA         |
| C809,810             | VCCSBT1HL150J                  |                               | АА         | R33               | VRD-MN2BD225J             | J 2.2 Mohms,1/8W  | AA         |
| C811,812             |                                | J 100 µF,35V,Electrolytic     | AB         | R34,35            | VRD-MN2BD103J             | J 10 kahm,1/8W  | A A        |
| C813                 |                                | J 10 μF,50V,Electrolytic      | AB         | R36               | VRD-MN2BD821J             | J 820 ohms,1/8W   | AA         |
| C814~816             |                                | J 47 μF,35V,Electrolytic      | AB         | R37               | VRD-MN2BD221J             | J 220 ohms,1/8W   | AA         |
| C817~820             |                                | J 0.1 μF,63V,Thin Film        | AB         | R38,39            | VRD-MN2BD682J             | J 6.8 kohms,1/8W  | AΑ         |
| C821,822             |                                | J 10 μF,50V,Electrolytic,Non  | AB         | R40,41            | VRD-MN2BD223J             | J 22 kohms,1/8W   | AA         |
| 0022,022             | 1                              | -Polar                        |            | R42               | VRD-MN2BD103J             | J 10 kohm,1/8W  | AA         |
| C823~826             | VCOYKA1HM223K                  | J 0.022 μF,50V,Mylar [H       | AA         | R43               | VRD-MN2BD471J             | J 470 ohms,1/8W   | АА         |
|                      | -                              | Only]                         |            | R44               | VRD-MN2BD681J             | J 680 ohms,1/8W   | AA         |
| C827~830             | VCQYKA1HM222K                  | J 0.0022 µF,50V,Mylar [H      | AA         | R45               | VRD-MN2BD223J             | J 22 kohms,1/8W   | АА         |
|                      | -                              | Only]                         |            | R46               | VRD-MN2BD102J             |   | AA         |
| C833                 | VCE9AU1HC565M                  | J 5.6 µF,50V,Electrolytic,Non | A D        | R47               | VRD-MN2BD124J             | J 120 kohms,1/8W  | ΑА         |
|                      |                                | -Polar [E Only]               |            | R48               | VRD-MN2BD154J             | J 150 kohms,1/8W  | AA         |
| C835,836             | RC-GZA106AF1H                  | J 10 μF,50V,Electrolytic      | ΑВ         | R49               | VRD-MN2BD273J             | •   | АА         |
| C837,838             |                                | J 0.01 μF,50V [H Only]        | AA         | R50               | VRD-MN2BD222J             | J 2.2 kohms,1/8W  | AA         |
| C839                 |                                | J 3.3 μF,50V,Electrolytic     | AB         | R51               | VRD-MN2BD822J             | J 8.2 kohms,1/8W  | АА         |
| C840                 |                                | J 1 μF,50V, Electrolytic      | AB         | R52               | VRD-MN2BD102J             |   | АА         |
| C841                 |                                | J 100 μF,16V,Electrolytic     | AB         | R53               | VRD-MN2BD154J             | J 150 kohms,1/8W  | AA         |
| C843                 |                                | J 0.047 μF,50V [E Only]       | AA         | R54               | VRD-MN2BD104J             | J 100 kohm,1/8W   | AA         |
| C844                 |                                | J 0.047 μF,50V [H Only]       | AA         | R55               | VRD-MN2BD221J             | J 220 ohms,1/8W   | AA         |
| C845,846             | VCKZPA1HF223Z                  |                               | AA         | R56~58            | VRD-MN2BD222J             | J 2.2 kohms,1/8W  | AA         |
| C847,848             |                                | J 220 μF,35V,Electrolytic     | A D        | R59               | VRD-MN2BD331J             | J 330 ohms,1/8W   | AÀ         |
| C849,850             |                                | J 3300 μF,35V,Electrolytic    | АН         | R60               | VRD-MN2BD274J             | J 270 kohms,1/8W  | AA         |
| C851                 |                                | J 10 μF,50V,Electrolytic      | AB         | R61               | VRD-MN2BD223J             | J 22 kohms,1/8W   | AA         |
| C852                 |                                | J 100 μF,25V,Electrolytic     | AB         | R62               | VRD-MN2BD153J             | J 15 kohms,1/8W   | AA         |
| C853                 | VCKZPA1HF473Z                  |                               | A A        | R63               | VRD-MN2BD273J             | J 27 kohms,1/8W   | AA         |
| C854                 |                                | J 22 μF,25V,Electrolytic      | AB         | R64               | VRD-MN2BD104J             | J 100 kohm,1/8W   | AΑ         |
| C855                 |                                | J 47 μF,25V,Electrolytic      | AB         | R65               | VRD-MN2BD184J             | J 180 kohms,1/8W  | АА         |
| C856                 | RC-GZA227AF1E                  | J 220 μF,25V,Electrolytic     | AB,        |                   |                           |   |            |

| RP-302H/         | E CP-302   |                                      |            |                      |                                |                              |          |              |
|------------------|--|--------------------------------------|------------|----------------------|--------------------------------|------------------------------|----------|--------------|
| REF.NO.          | PART NO.   | ★ DESCRIPTION                        | CODE       | REF.NO.              | PART NO.                       | ★ DES                        | CRIPTION | CODE         |
| R66              |  | J 10 kohm,1/I0W,Metal                | A A        | R228                 | VRD-ST2CD473J                  |                              |          | АА           |
|                  | the specific to                                      | Oxide Film                           |            | R229~231             | VRD-MN2BD102J                  | J 1 kohm,1/                  |          | A A          |
| R67              | VRS-TV2AB103J  | J 2.2 kohms,1/8W                     | AA         | R232                 | VRD-MN2BD473J                  | J 47 kohms,                  |          | AA           |
| R68              | AK2-145WB1021  | J 10 kohm,1/10W,Metal<br>Oxide Film  | AA         | R234<br>R235         | VRD-MN2BD473J<br>VRD-MN2BD222J | J 47 kohms,                  |          | AA           |
| R69              | * * *  | J 68 kohms,1/8W                      | . A.A      | R236~238             | VRD-MN2BD103J                  | J 2.2 kohms<br>J 10 kohm,1   |          | * A A<br>A A |
| R70 .            | VRD-MN2BD100J  |                                      | AA         | R240                 | VRD-ST2EE331J                  | J 330 ohms,                  |          | AA           |
| R71              |  | J 68 kohms,1/8W                      | AA         | R281                 | VRD-ST2CD223J                  |                              |          | AA           |
| R72              |  | J 120 kohms,1/8W                     | A:A        | R282                 | VRD-ST2CD122J                  | J 1.2 kohms                  | ,1/6W    | AA           |
| R73              |  | J 330 kohms,1/8W                     | A A        | R283                 | .VRD-RT2HD181J                 |                              |          | A A          |
| R74              |  | J 560 kohms,1/8W                     | AA         | R284                 | VRD-RT2HD820J                  | J 82 ohms,1                  |          | A A          |
| R75              |  | J 150 kohms,1/8W                     | AA         | R285,286             | VRD-ST2CD151J                  | J 150 ohms,                  |          | AA           |
| R76<br>R77       |  | J 47 kohms,1/8W<br>- J 100 kohm,1/8W | A A<br>A A | R287,288<br>R291,292 | VRD-ST2CD105J                  | J 1 Mohm, 1,                 |          | AA           |
| R78              | VRD-MN2BD471J  | • .                                  | AA         | R302~304             | VRD-ST2CD822J<br>VRD-MN2BD103J | J 8.2 kohms<br>J 10 kohm,1   |          | A A<br>A A   |
| R79              |  | J 22 kohms,1/8W                      | AA         | R305                 | VRD-MN2BD224J                  |                              |          | AA           |
| R80              | VRD-MN2BD1R0J  |                                      | A A        | R306~308             | VRD-MN2BD103J                  | J 10 kohm,1                  |          | AA           |
| R81              | VRD-MN2BD2R2J  | J 2.2 ohms,1/8W                      | AA         | R309~311             | VRD-MN2BD102J                  | J 1 kohm,1/                  |          | AA           |
| R82              |  | J 27 kohms,1/8W                      | AA         | R312~314             | VRD-MN2BD103J                  | J 10 kohm,1                  | /8W      | A A          |
| R83              |  | J 270 kohms,1/8W                     | AA         | R315~317             | VRD-MN2BD102J                  | J 1  kohm, 1/                |          | A A          |
| R84              | VRD-MN2BD2R2J  |                                      | AA         | R318                 | VRD-MN2BD823J                  | J 82 kohms,                  |          | AA           |
| R85              | VRD-MN2BD333J  |                                      | AA         | R319                 | VRD-MN2BD123J                  | J 12 kohms,                  |          | AA           |
| R86<br>R87       | VRD-MN2BD153J<br>VRS-TV2AB683J                       | * *                                  | A A<br>A A | R320<br>R321         | VRD-MN2BD683J                  | J 68 kohms,                  |          | AA           |
| 1(0)             | VIII 1 1 2 ALI 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | Oxide Film                           | ^^         | R323                 | VRD-MN2BD473J<br>VRD-MN2BD103J | J 47 köhms,                  | -        | A A<br>A A   |
| R88              | VRS-TV2AB103J  |                                      | AA         | R324                 | VRD-ST2EE181J                  |                              |          | AA           |
|                  |  | Oxide Film                           |            | R330                 | VRD-MN2BD223J                  | J 22 kohms,                  |          | AA           |
| R89              | VRS-TV2AB393J  |                                      | AA         | R331                 | VRD-MN2BD103J                  | J 10 kohm,1                  |          | AA           |
| •                | 4  | Oxide Film                           |            | R332                 | VRD-MN2BD473J                  | J 47 kohms,                  | 1/8W     | AA           |
| R90              | VRD-MN2BD472J  |                                      | AA         | R333                 | VRD-MN2BD103J                  | J 10 kohm,1                  |          | AA           |
| R91              | VRD-MN2BD124J  |                                      | AA         | R334                 | VRD-MN2BD224J                  | J 220 kohms                  |          | AA           |
| R92<br>R93       | VRD-MN2BD154J  | J 150 kohms,1/8W<br>J 220 kohms,1/8W | A A<br>A A | R335<br>R338         | VRD-MN2BD474J                  | J 470 kohms                  | •        | AA           |
| R94              | VRD-MN2BD272J  |                                      | AA         | R339                 | VRD-MN2BD103J<br>VRD-MN2BD472J | J 10 kohm,1<br>J 47 kohms    |          | A A<br>A A   |
| R95              | VRD-MN2BD184J  |                                      | AA         | R340                 | VRD-ST2CD333J                  | J 33 kohms,                  |          | AA           |
| R96              | VRD-MN2BD154J  |                                      | AA         | R341~344             | VRD-MN2BD102J                  | J 1 kohm,1/                  |          | AA           |
| R97              | VRD-MN2BD273J  |                                      | AA         | R345                 | VRD-MN2BD102J                  | J 1 kohm,1/                  |          | AA           |
| R98              | VRD-MN2BD822J  |                                      | AΑ         | R401,402             | VRD-MN2BD333J                  | J 33 kohms,                  |          | AA           |
| R99              | VRD-MN2BD103J  |                                      | AA         | R401,402             | VRD-MN2BD473J                  | J 47 kohms,                  |          | A A          |
| R100             | VRD-MN2BD823J  |                                      | AA         | R403,404             | VRD-MN2BD153J                  | J 15 kohms,                  | •        | AA           |
| R101<br>R102     | VRD-MN2BD184J<br>VRD-MN2BD1R0J                       |                                      | A A<br>A A | R405,406<br>R407,408 | VRD-MN2BD103J<br>VRD-MN2BD104J | J 10 kohm,1, J 100 kohm,     |          | AA           |
| R103             | VRD-MN2BD2R2J  |                                      | AA         | R409,410             | VRD-MN2BD1043                  | J 2.7 kohms                  | - (      | A A<br>A A   |
| R105,106         | VRD-MN2BD333J  |                                      | AA         | R411,412             | VRD-MN2BD683J                  | J 68 kohms,                  |          | AA           |
| R107             | VRD-MN2BD473J  |                                      | AA         | R413,414             | VRD-MN2BD103J                  | J 10 kohm,1                  |          | AA           |
| R108             | VRD-MN2BD221J  | J 220 ohms,1/8W                      | AA         | R415,416             | VRD-MN2BD222J                  | J 2.2 kohms                  |          | AA           |
| R109             | VRD-MN2BD473J  |                                      | AΑ         | R417,418             | VRD-MN2BD683J                  | J 68 kohms,                  | 1/8W     | AA           |
| R110             | VRD-MN2BD682J  |                                      | AA         | R419,420             | VRD-MN2BD103J                  | J 10 kohm,1,                 |          | AA           |
| R112             | VRD-MN2BD473J  |                                      | AA         | R421,422             | VRD-MN2BD222J                  | J 2.2 kohms                  |          | AA           |
| R113<br>R114     | VRD-MN2BD563J<br>VRD-MN2BD1R0J                       |                                      | A A<br>A A | R423,424<br>R425,426 | VRD-MN2BD683J<br>VRD-MN2BD103J | J 68 kohms,<br>J 10 kohm,1   |          | AA           |
| R115             | VRD-MN2BD2R2J  | J 2.2 ohms,1/8W                      | AA         | R427,428             | VRD-MN2BD1033                  | J 2.2 kohms,                 |          | A A<br>A A   |
| R116             | VRD-MN2BD224J  |                                      | AA         | R429,430             | VRD-MN2BD683J                  | J 68 kohms,                  |          | AA           |
| R118             | VRD-MN2BD564J  |                                      | AA         | R431,432             | VRD-MN2BD103J                  | J 10 kohm,1                  |          | AA           |
| R120             | VRD-MN2BD102J  |                                      | AA         | R433,434             | VRD-MN2BD222J                  | J 2.2 kohms,                 | 1/8W     | AΑ           |
| R150             | VRD-MN2BD1R0J  |                                      | A A        | R435,436             | VRD-MN2BD683J                  | J 68 kohms,                  |          | AA           |
| R151             | VRS-TV2AB182J  |                                      | AA         | R437,438             | VRD-MN2BD103J                  | J 10 kohm,1,                 |          | AA           |
| D160             | VDC TVOADOZOL  | Oxide Film                           |            | R439,440             | VRD-ST2CD123J                  | J 12 kohms,                  |          | AA           |
| R160             | VRS-TV2AB273J  | J 27 kohms,1/10W,Metal<br>Oxide Film | AA         | R441,442             | VRD-ST2CD102J                  | J 1 kohm,1/                  |          | AA           |
| R201             | VRD-MN2BD224J  | J 220 kohms,1/8W                     | АА         | R443,444<br>R445,446 | VRD-MN2BD103J<br>VRD-MN2BD183J | J 10 kohm,1,<br>J 18 kohms,  |          | A A<br>A A   |
| R202             |  | J 470 kohms,1/8W                     | AA         | R447,448             | VRD-MN2BD393J                  | J 39 kohms,                  |          | AA           |
| R203             | VRD-MN2BD223J  | J 22 kohms,1/8W                      | AA         | R449,450             | VRD-MN2BD103J                  | J 10 kohm,1,                 |          | AA           |
| R205             | VRD-MN2BD104J  |                                      | AA         | R451,452             | VRD-MN2BD473J                  | J 47 kohms,                  |          | AA           |
| R206             | VRD-MN2BD473J  |                                      | AA         | R453~461             | VRD-MN2BD182J                  | J 1.8 kohms,                 |          | AA           |
| R207~212         | VRD-MN2BD104J  | J 100 kohm,1/8W                      | AA         | R462                 | VRD-ST2CD182J                  | J 1.8 kohms,                 |          | AA           |
| R213             | VRD-MN2BD823J  | J 82 kohms,1/8W                      | AA         | R463,464             | VRD-ST2EE560J                  | J 56 ohms,1,                 |          | AA           |
| R214~219         | VRD-MN2BD102J  | J 1 kohm,1/8W                        | AA         | R465~468             | VRD-MN2BD473J                  | J 47 kohms,                  |          | AA           |
| R220<br>R221~227 | VRD-MN2BD222J<br>VRD-MN2BD102J                       | J 2.2 kohms,1/8W<br>J 1 kohm,1/8W    | A A<br>A A | R469<br>R472,473     | VRD-ST2CD473J<br>VRD-MN2BD473J | J 47 kohms,:<br>J 47 kohms,: | -        | AA           |
| 17221 22/        | THE MITEURIUE  | o i nomination                       | 77         | 117/2,7/J            | AUTO MINISTERATION             | J TI KUIIIIS,                | T' OAA   | АА           |

|                      |                   |  |       |          |   | FP-302H/E            | UP-302 |
|----------------------|-------------------|--|-------|----------|---|----------------------|--------|
| REF.NO.              | PART NO.          | ★ DESCRIPTION  | CODE  | REF.NO.  | PART NO.                                | <b>★</b> DESCRIPTION | CODE   |
| R474                 | VRD-MN2BD222J     | J 2.2 kohms.1/8W   | АА    | R604     | VRD-ST2CD224J                           | J 220 kohms,1/6W [H  | A A    |
| R474<br>R475         | VRD-MN2BD32223    |  | AA    | 1.001    | *************************************** | Only]                |        |
| R475                 | VRD-ST2CD103J     | * 2  | AA    | R605     | VRD-MN2BD331J                           | J 330 ohms,1/8W      | AA     |
| R479                 | VRD-ST2CD473J     |  | AA    | R606     | VRD-MN2BD334J                           | J 330 kohms,1/8W     | AA     |
| R480                 | VRD-MN2BD152J     |  | AA    | R607,608 | VRD-MN2BD331J                           | J 330 ohms,1/8W      | AA     |
| R481                 | VRD-ST2CD391J     | J 390 ohms,1/6W  | AA    | R609     | VRD-MN2BD101J                           | J 100 ohm,1/8W       | AA     |
| R482,483             | VRD-ST2CD102J     | ·  | AA    | R610     | VRD-MN2BD682J                           | J 6.8 kohms,1/8W     | AA     |
| R484                 | VRD-MN2BD122J     |  | AA    | R611     | VRD-ST2CD222J                           | J 2.2 kohms,1/6W     | AA     |
| R485                 | VRD-ST2EE2R2J     |  | AA    | R612     | VRD-MN2BD102J                           | J 1 kohm,1/8W [H]    | AA     |
| R486~488             | VRD-MN2BD473J     |  | AA    | R612     | VRD-MN2BD222J                           | J 2.2 kohms,1/8W [E] | AA     |
| R489                 | VRD-MN2BD821J     |  | AA    | R613     | VRD-MN2BD122J                           | J 1.2 kohms,1/8W [E] | AA     |
| R490                 | VRD-MN2BD105J     |  | AA    | R613     | VRD-MN2BD272J                           | J 2.7 kohms.1/8W [H] | AA     |
| R491                 | VRD-MN2BD222J     |  | AA    | R614     | VRD-MN2BD103J                           | J 10 kohm,1/8W       | AA     |
| R492                 | VRD-ST2CD391J     |  | AA    | R616~618 | VRD-MN2BD104J                           | J 100 kohm,1/8W      | AA     |
| R493                 | VRD-MN2BD103J     |  | AA    | R619~622 | VRD-MN2BD102J                           | J 1 kohm,1/8W        | AA     |
| R494                 | VRD-ST2EE391J     |  | AA    | R623     | VRD-ST2CD102J                           | J 1 kohm,1/6W        | AA     |
| R495                 | VRD-ST2CD152J     |  | AA    | R624     | VRD-MN2BD104J                           | J 100 kohm,1/8W      | AA     |
| R496                 | VRD-ST2EE391J     |  | AA    | R625     | VRD-MN2BD472J                           | J 4.7 kohms, 1/8W    | AA     |
| R497,498             | VRD-ST2CD124J     |  | AA    | R626     | VRD-MN2BD104J                           | J 100 kohm,1/8W      | AA     |
| N497,490             | VIID 312001243    | Only]  | 21.11 | R627     | VRD-MN2BD683J                           | J 68 kohms,1/8W      | AA     |
| R501,502             | VRD-MN2BD102J     |  | AA    | R628     | VRD-ST2CD562J                           | J 5.6 kohms,1/6W     | AA     |
| R503,504             | VRD-MN2BD473J     |  | AA    | R629,630 | VRD-MN2BD562J                           | J 5.6 kohms,1/8W     | AΑ     |
| R505,504             | VRD-MN2BD821J     |  | AA    | R631,632 | VRD-MN2BD104J                           | J 100 kohm,1/8W      | AA     |
| R507,508             | VRD-MN2BD394J     |  | AA    | R633     | VRD-ST2CD183J                           | J 18 kohms,1/6W      | AA     |
| R509,510             | VRD-MN2BD3343     |  | AA    | R634     | VRD-MN2BD682J                           | J 6.8 kohms, 1/8W    | AA     |
| R511,512             | VRD-MN2BD472J     |  | AA    | R635     | VRD-MN2BD683J                           | J 68 kohms, 1/8W     | AA     |
| R513,514             | VRD-MN2BD392J     |  | AA    | R636     | VRD-MN2BD272J                           | J 2.7 kohms,1/8W     | AA     |
| R515,514             | VRD-MN2BD332J     |  | AA    | R637     | VRD-ST2CD103J                           | J 10 kohm,1/6W       | AΑ     |
| R517,518             | VRD-MN2BD104J     |  | AA    | R638     | VRD-MN2BD103J                           | J 10 kohm,1/8W       | AA     |
| R519,520             | VRD-MN2BD393J     |  | AA    | R639     | VRD-MN2BD332J                           | J 3.3 kohms,1/8W     | AA     |
| R521,522             | VRD-MN2BD123J     |  | AA    | R640     | VRD-MN2BD122J                           | J 1.2 kohms,1/8W [H] | AA     |
| R523,524             | VRD-MN2BD822J     |  | AA    | R640     | VRD-MN2BD822J                           | J 8.2 kohms,1/8W [E] | AA     |
| R525,526             | VRD-MN2BD152J     |  | AA    | R641     | VRD-MN2BD682J                           | J 6.8 kohms,1/8W     | AA     |
| R527,528             | VRD-ST2CD102J     |  | AA    | R642     | VRD-ST2EE151J                           | J 150 ohms,1/4W      | AA     |
| R529,530             | VRD-ST2EE561J     |  | AA    | R643     | VRD-ST2CD820J                           | J 82 ohms,1/6W       | AA     |
| R531,532             | VRD-ST2EE391J     | - · · · · · · · · · · · · · · · · · · ·  | AA    | R644,645 | VRD-MN2BD103J                           | J 10 kohm,1/8W       | AA     |
| R533~535             | VRD-MN2BD473J     |  | AA    | R646     | VRD-MN2BD222J                           | J 2.2 kohms,1/8W [E] | AA     |
| R536,537             | VRD-MN2BD4733     |  | AA    | R646     | VRD-MN2BD392J                           | J 3.9 kohms,1/8W [H] | AA     |
| R539,540             | VRD-MN2BD4723     |  | AA    | R647,648 | VRD-MN2BD102J                           | J 1 kohm,1/8W        | AA     |
| R541,542             | VRD-MN2BD102J     |  | AA    | R649     | VRD-MN2BD103J                           | J 10 kohm.1/8W       | AA     |
| R543,544             | VRD-MN2BD182J     |  | AA    | R650     | VRD-ST2CD104J                           | J 100 kohm,1/6W      | AA     |
| R545,546             | VRD-MN2BD822J     |  | AA    | R651     | VRD-MN2BD472J                           | J 4.7 kohms,1/8W     | AA     |
| R547,548             | VRD-MN2BD104J     |  | AA    | R652     | VRD-ST2CD471J                           | J 470 ohms,1/6W      | AA     |
| R549,550             | VRD-MN2BD472J     |  | AA    | R653     | VRD-MN2BD334J                           | J 330 kohms,1/8W     | AA     |
| R551~554             | VRD-MN2BD472J     |  | AA    | R654     | VRD-MN2BD223J                           | J 22 kohms,1/8W      | AA     |
| R555,556             | VRD-MN2BD104J     | a company of the comp | AA    | R655     | VRD-MN2BD103J                           | J 10 kohm,1/8W       | AA     |
| R557                 | VRD-MN2BD473J     |  | AA    | R656     | VRD-ST2CD102J                           | J 1 kohm,1/6W        | A A    |
| R559,560             | VRD-MN2BD103J     | and the same of the same   | AA    | R657     | VRD-ST2CD472J                           | J 4.7 kohms,1/6W     | AA     |
| R561,562             | VRD-MN2BD683J     |  | AA    | R658     | VRD-MN2BD102J                           | J 1 kohm,1/8W        | AA     |
| R563,564             | VRD-MN2BD152J     |  | AA    | R659     | VRD-ST2CD273J                           | J 27 kohms, 1/6W     | AA     |
| R565,566             | VRD-MN2BD104J     |  | AA    | R660     | VRD-MN2BD102J                           | J 1 kohm,1/8W        | AA     |
| R567,568             | VRD-MN2BD1043     | and the same of the same   | AA    | R661     | VRD-MN2BD562J                           | J 5.6 kohms,1/8W     | AA     |
| R569,570             | VRD-MN2BD683J     |  | AA    | R662     | VRD-MN2BD223J                           | J 22 kohms,1/8W [H]  | AA     |
| R571,572             | VRD-MN2BD472J     |  | AA    | R662     | VRD-MN2BD473J                           | J 47 kohms,1/8W [E]  | AA     |
| R573,574             | VRD-MN2BD104J     |  | AA    | R663     | VRD-MN2BD123J                           | J 12 kohms,1/8W      | AA     |
| R575~578             | VRD-MN2BD1043     | The second secon | AA    | R664     | VRD-ST2CD823J                           | J 82 kohms, 1/6W     | AA     |
| R579,580             | VRD-MN2BD473J     |  | AA    | R665     | VRD-MN2BD332J                           | J 3.3 kohms,1/8W     | AA     |
|                      | VRD-MN2BD103J     | and the state of the same  | AA    | R666     | VRD-MN2BD102J                           | J 1 kohm,1/8W        | AA     |
| R581<br>R582         | VRD-ST2CD102J     |  | AA    | R667,668 | VRD-MN2BD224J                           | J 220 kohms,1/8W [H] | AA     |
| R583,584             | VRD-ST2EE561J     |  | AA    | R667,668 | VRD-MN2BD683J                           | J 68 kohms,1/8W [E]  | AA     |
|                      | VRD-MN2BD682J     |  | AA    | R669,670 | VRD-MN2BD154J                           | J 150 kohms,1/8W [H] | AA     |
| R585,586<br>R587,588 | VRD-ST2CD123J     |  | AA    | R669,670 | VRD-MN2BD563J                           | J 56 kohms, 1/8W [E] | AA     |
| R589,590             | VRD-ST2CD1233     |  | AA    | R671,672 | VRD-MN2BD332J                           | J 3.3 kohms,1/8W     | AA     |
|                      | VRD-MN2BD102J     |  | AA    | R675,676 | VRD-MN2BD392J                           | J 3.9 kohms,1/8W     | AA     |
| R591,592<br>R593,594 | VRD-ST2CD102J     | and the same of th | AA    | R677     | VRD-MN2BD332J                           | J 3.3 kohms,1/8W     | AA     |
| R601                 | VRD-MN2BD124J     |  | AA    | R678     | VRD-ST2CD104J                           | J 100 kohm,1/6W      | AA     |
| KOOT                 | A UD. MINEDDI 543 | Only]  | ,.,,  | R679,680 | VRD-MN2BD472J                           | J 4.7 kohms,1/8W     | AA     |
| DENO                 | VRD-MN2BD331J     |  | АА    | R681     | VRD-ST2EE561J                           | J 560 ohms,1/4W      | AA     |
| R602<br>R603         |                   | J 4.7 kohms,1/6W [H Only]  | AA    | R682     | VRD-MN2BD222J                           | J 2.2 kohms,1/8W     | AA     |
| KODS                 | 4KD-31ZOD4/ZJ     | 2 4'\ VOUIII9'T\AM FIT OIIIÀ]  | ,,,,  | R683     | VRD-MN2BD333J                           | J 33 kohms,1/8W      | AA     |
|                      |                   |  |       | ,        |   |                      |        |

| RP-302H/         | CP-3U2                         |                             |            |                  |   |                             |            |
|------------------|--------------------------------|-----------------------------|------------|------------------|---|-----------------------------|------------|
| REF.NO.          | PART NO.                       | ★ DESCRIPTION               | CODE       | REF.NO.          | PART NO.                                | ★ DESCRIPTION               | CODE       |
| R701,702         | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | R807;808         | VRD-ST2CD561J                           | J 560 ohms,1/6W             | Λ Λ        |
| R703             | VRD-ST2CD223J                  |                             | AA         | R809,810         | VRD-ST2CD563J                           | J 56 kohms,1/6W             | AA         |
| R704             | VRD-ST2CD103J                  |                             | A A        | R811             | VRD-ST2CD103J                           |                             | A A<br>A A |
| R705             | VRD-ST2CD273J                  |                             | AA         | R812             | VRD-ST2CD154J                           |                             | AA         |
| R706:            | VRD-ST2CD102J                  |                             | AA         | R813~816         | VRD-ST2EE222J                           |                             | AA         |
| R707,708         | VRD-ST2CD562J                  |                             | AA         | ∆R818            | VRG-ST2EF101J                           |                             | АВ         |
| R709,710         | VRD-ST2CD332J                  |                             | AA         | R819,820         | VRD-ST2EE102J                           | J 1 kohm;1/4W               | AA         |
| R711,712         | VRD-ST2CD333J                  |                             | AA         | R821             | VRD-ST2CD224J                           | J 220 kohms,1/6W            | AA         |
| R713             | VRD-ST2CD103J                  |                             | AA         | R822             | VRD-ST2CD393J                           | J 39 kohms,1/6W             | AA         |
| R714             | VRD-ST2CD472J                  | J 4.7 kohms,1/6W            | AA         | <b>△R823</b>     | VRG-ST2EF101J                           | J 100 ohm,1/4W,Fusible      | AB         |
| R715             | VRD-ST2CD682J                  | J 6.8 kohms,1/6W            | AΑ         | R824             | VRD-ST2CD101J                           | J 100 ohm,1/6W              | AA         |
| R716             | VRD-ST2EE221J                  |                             | AA         | R825             | VRD-ST2CD104J                           |                             | AA         |
| R717~720         | VRD-ST2CD102J                  | J 1 kohm,1/6W               | AA         | R827,828         | VRD-ST2EE4R7J                           | J 4.7 ohms, 1/4W            | AA         |
| R721,722         | VRD-ST2CD680J                  |                             | AA         | R829,830         | VRD-RT2HD331J                           | J 330 ohms,1/2W             | AA         |
| R723~726         | VRD-ST2CD392J                  | J 3.9 kohms,1/6W            | AA         | R831,832         | VRD-ST2EE3R9J                           | J 3.9 ohms,1/4W [H Only]    | AA         |
| R727             | VRD-ST2CD104J                  | J 100 kohm,1/6W             | AA         | R833,834         | VRD-ST2EE6R8J                           | J 6.8 ohms, 1/4W [H Only]   | AA         |
| R728             | VRD-ST2CD104J                  | J 100 kohm,1/6W             | AA         | R836,837         | VRD-ST2CD472J                           | J 4.7 kohms,1/6W            | AA         |
| R729,730         | VRD-ST2CD332J                  | J 3.3 kohms,1/6W            | AA         | R839,840         | VRD-ST2EE152J                           | J 1.5 kohms,1/4W            | AA         |
| R731~733         | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | <b>△R841,842</b> | VRG-ST2EC100J                           | J 10 ohm,1/4W,Fusible       | AB         |
| R734,735         | VRD-ST2CD103J                  |                             | AA         | R843             | VRD-ST2CD183J                           | J 18 kohms, 1/6W            | AA         |
| R736             | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | R844             | VRD-ST2EE472J                           | J 4.7 kohms,1/4W            | AA         |
| R737,738         | VRD-ST2CD332J                  | J 3.3 kohms,1/6W            | AA         | R845             | VRD-ST2EE101J                           | J 100 ohm,1/4W              | AA         |
| R739,740         | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | R846             | VRD-RT2HD101J                           | J 100 ohm,1/2W              | AA         |
| R741             | VRD-ST2CD102J                  | J 1 kohm,1/6W               | AA         | R847             | VRD-ST2EE182J                           | J 1.8 kohms,1/4W            | AA         |
| R742             | VRD-ST2CD333J                  | J 33 kohms,1/6W             | AA         | R848             | VRD-ST2CD332J                           | J 3.3 kohms,1/6W            |            |
| R743,744         | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | R849             | VRD-ST2EE101J                           | J 100 ohm,1/4W              | A A<br>A A |
| R745             | VRD-ST2CD103J                  | J 10 kohm,1/6W              | AA         | △R850            | VRG-ST2EG2R2J                           | J 2.2 ohms,1/4W,Fusible     |            |
| R746             | VRD-ST2CD472J                  | J 4.7 kohms, 1/6W           | AA         | R851             | VRD-ST2EE102J                           | J 1 kohm,1/4W               | AB         |
| R747,748         | VRD-ST2CD102J                  | J 1 kohm,1/6W               | AA         | R852             | VRD-ST2EE101J                           |                             | AA         |
| R749~751         | VRD-ST2CD223J                  | J 22 kohms,1/6W             | AA         | R853             | VRG-ST2EG1R2J                           | J 100 ohm,1/4W              | AA         |
| R752             | VRD-ST2CD102J                  | J 1 kohm,1/6W               | AA         | R854             | VRD-ST2EE102J                           | J 1.2 ohms,1/4W,Fusible     | AB         |
| R753,754         | VRD-ST2CD153J                  | J 15 kohms,1/6W             | AA         | R855             |   | J 1 kohm,1/4W               | AA         |
| R755,756         | VRD-ST2CD562J                  | J 5.6 kohms,1/6W            | AA         | AR856            | VRD-ST2EE101J                           | J 100 ohm,1/4W              | AA         |
| R757,758         | VRD-ST2CD100J                  | J 10 ohm,1/6W               | AA         | R857             | VRG-ST2EG1R2J                           | J 1.2 ohms,1/4W,Fusible     | AB         |
| R759,760         | VRD-ST2CD123J                  | J 12 kohms,1/6W             | AA         | R860             | VRD-ST2EE102J                           | J 1 kohm,1/4W               | AA         |
| R761,762         | VRD-ST2CD103J                  | J 10 kohm, 1/6W             |            |                  | VRD-ST2CD332J                           | J 3.3 kohms,1/6W            | AA         |
| R763,764         | VRD-ST2CD1033                  | J 15 kohms,1/6W             | A A<br>A A | R861<br>R862.863 | VRD-ST2CD102J                           | J 1 kohm,1/6W               | AA         |
| R765,766         | VRD-ST2CD102J                  | J 1 kohm,1/6W               |            |                  | VRD-ST2CD103J                           | J 10 kohm,1/6W              | AA         |
| R767,768         | VRD-ST2CD392J                  | J 3.9 kohms,1/6W            | AA         | R865,866         | VRD-ST2CD102J                           | J 1 kohm,1/6W [H Only]      | AA         |
| R769~772         | VRD-ST2CD224J                  | J 220 kohms,1/6W            | AA         |                  | OTHER GIROL                             | UTDY DARTO                  |            |
| R773,774         | VRD-ST2CD2243                  |                             | AA         |                  | OTHER CIRCU                             | HIRY PARIS                  |            |
| R775,774<br>R775 | VRD-ST2CD163J                  | J 10 kohm,1/6W              | AA         | BI301            | OCNIMATE OF A OFFICE                    | J Connector Ass'y,6-5Pin    |            |
| R776             |                                | J 56 kohms,1/6W             | AA         | BI302            | OCNUMBER OF THE                         | J Connector Ass'y,10-10Pin  | AF         |
| R777             | VRD-ST2CD153J<br>VRD-ST2CD100J |                             | AA         | BI401            | OCHWING GEOMEZZ                         | J Connector Ass'y,2-2Pin    | AH         |
| R779,780         | VRD-ST2CD222J                  |                             | AA         | B1501            |   | J Connector Ass'y,4-3Pin    | AC         |
| -                |                                |                             | AA         | BI502            |   |                             | AF         |
| R781,782         | AKD-215CD3331                  | J 39 kohms, 1/6W [E, S'No.  | AA         | B1701            |   | J Connector Ass'y,2-2Pin    | A D        |
| D701 700         | VDD CTACDAGA                   | 90102001~]                  |            | D1701            | QUINWINGSOAAFZZ                         | J Connector Ass'y,2-2Pin [H | AL         |
| R781,782         |                                | J 39 kohms,1/6W [H]         | AA         | D1701            |   | Only]                       |            |
| R781,782         | VKD-\$12GD473J                 | J 47 kohms, 1/6W [E,S'No.   | AA         | B1702            |   | Part of Ref. No.Bi701 [H    | _          |
| 5700             | VDD 070004751                  | 90100101~90102000]          |            | D1001            | 000000000000000000000000000000000000000 | Only]                       |            |
| R783             |                                | J 4.7 Mohms,1/6W            | AA         | BI801            | QCIAMIA2 9 2 TAL 5 Z                    | J Connector Ass'y,6-6Pin    | ΑF         |
| R784             | VRD-ST2EE221J                  |                             | AA         | B1802            | OCNUMBIA 0.45 A E 7.7                   | Part of Ref. No.BI801       |            |
| R785,786         |                                | J 1.5 kohms,1/6W            | AA         | BI901            | QUINWINS 84 BAFZZ                       | J Connector Ass'y,12-12Pin  | AG         |
| R787,788         |                                | J 220 ohms,1/6W [H]         | AA         | Bi902            |   | J Connector Ass'y,4-3Pin    | ΑE         |
| R787,788         | VRD-512GD221J                  | J 220 ohms, 1/6W [E, S'Na   | AA         | CNP1             | QCNCM687HAFZZ                           |                             | AB         |
| D707 700         | WDD 070000711                  | 90102001~]                  |            | CNP2             | QCNCM687FAFZZ                           |                             | AB         |
| R787,788         | VRD-ST2CD271J                  | J 270 ohms,1/6W [E,S'No.    | AA         | CNP3             | QCNCM687LAFZZ                           |                             | A C        |
|                  |                                | 90100101~90102000]          |            | CNP4             | QCNCM687KAFZZ                           |                             | A C        |
| R789,790         |                                | J 47 kohms,1/6W             | AA         | CNP5             | QCNCM687EAFZZ                           |                             | A B        |
| R791,792         | VRD-ST2CD105J                  |                             | A A        | CNP6             | QCNCM687CAFZZ                           |                             | AA         |
| R793,794         |                                | J 1 kohm,1/6W               | AA         | CNP7             | QCNCM687BAFZZ                           |                             | AA         |
| R795             |                                | J 1 kohm,1/6W [H Only]      | AA         | CNP8             | QCNCM687CAFZZ                           |                             | AA         |
| R796             |                                | J 1 kohm,1/6W [H Onty]      | A A        | CNP401           | QCNCM583BAFZZ                           |                             | AA         |
| R797,798         | VRD-ST2CD122J                  | J 1.2 kohms,1/6W [E Only,S' | AA         | CNP601           |   | J Plug,2Pin                 | AA         |
|                  | 4 - 14                         | Na 90100101~90102000]       |            | CNP701           | QCNCM591KAFZZ                           |                             | A C        |
| R799,800         | VRD-ST2CD224J                  | J 220 kohms,1/6W [E Only,   | AA         | CNP702           | QCNCM589HAFZZ                           |                             | AB         |
|                  |                                | S'No. 90100101~90102000]    |            | CNP703           | QCNCM584CAFZZ                           |                             | AA         |
| R801,802         |                                | J 5.6 kohms,1/6W            | A A        | CNP704           | QCNCM586EAFZZ                           |                             | AB         |
| R803,804         |                                | J 56 kohms,1/6W             | AA         | CNP801           | QCNCM593MAFZZ                           | J Plug,12Pin                | A C        |
| R805,806         | VRD-ST2CD102J                  | J 1 kohm,1/6W               | AA         |                  |   |                             |            |
|                  |                                |                             |            |                  |   |                             |            |

|                   |   |                               |            |          |                                |     | RP-302H/E CP                                | -302       |
|-------------------|---|-------------------------------|------------|----------|--------------------------------|-----|---|------------|
| REF.NO.           | PART NO.                                | ★ DESCRIPTION                 | CODE       | REF.NO.  | PART NO.                       | *   | DESCRIPTION                                 | CODE       |
| CNS1A/B           | QCNWN1806AFZZ                           | J Connector Ass'y,6-6/8-8     | ΑP         | WT701    | QCNCM680KAFZZ                  | J   | Socket,10Pin,Wire Trap                      | A D        |
|                   |   | Pin                           |            | WT801    |                                |     | Socket,10Pin,Wire Trap                      | A D        |
| CNS2A/B           |   | Part of Ref. No.CNS1A/B       | _          | WT802    |                                |     | Socket,5Pin,Wire Trap                       | AA         |
| CNS3              | QCNWN3762AFZZ                           | J Connector Ass'y,11Pin       | AG         | WT803    |                                |     | Socket,10Pin,Wire Trap                      | A D        |
| CNS4              |   | Part of Ref. No.BI302         | _          |          | -                              |     |   |            |
| CNS5              |   | Part of Ref. No.BI301         | Particular |          | DECK MECHA                     | NIS | SM PARTS                                    |            |
| CNS6              |   | Part of Ref. No.BI902         | _          |          |                                |     |   |            |
| CNS7              |   | Part of Ref. No.BI502         | -          | 1        | JBTN-0329AFSA                  | J   | Button,Play [Tape 1                         | A D        |
| CNS8              |   | Part of Ref. No.BI501         | _          |          |                                |     | Only]                                       | •          |
| CNS401            |   | Part of Ref. No.BI401         |            | 2        |                                |     | Button, Tape Mechanism                      | A C        |
| CNS601            | QCNWN3852AFZZ                           | J Connector Ass'y,2Pin        | ΑВ         | 3        | LANGF1296AFZZ                  |     |   | A C        |
| CNS701            | QCNWN3856AFZZ                           | J Connector Ass'y,10Pin       | ΑE         | 4        |                                |     | Bracket, Mechanism Joint                    | ΑD         |
| CNS702            | QCNWN3857AFZZ                           | J Connector Ass'y,8Pin        | ΑF         | 5        | LANGK0621AFFW                  |     |   | ΑВ         |
| CNS703            |   | J Connector Ass'y,3Pin        | ΑF         | 6        | LANGT1559AFFW                  |     |   | ΑB         |
| CNS704            | QCNWN3855AFZZ                           | J Connector Ass'y,5Pin        | A G        | 7        | LANGT1560AFFW                  |     |   | AB         |
| CNS801            |   | Part of Ref. No.BI901         | _          | 8        | LBSHZ0086AFZZ                  |     |   | A A        |
| <b></b> F801      | QFS-C252GAFNi                           | J Fuse,T2.5A,250V             | A D        | 9        | LCHSS0275AFFW                  |     |   | AB         |
| <b></b> ★F802,803 | QFS-C402GAFNi                           | J Fuse,T4A,250V               | A D        | 10       |                                |     | Head Base [Tape 1]                          | AΒ         |
| <b></b> ♠F901     | QFS-C102GAFNi                           | J Fuse,T1A,250V               | A D        | 10       |                                |     | Head Base [Tape 2]                          | AB         |
| <b></b> ∆F902,903 | QFS-C501GAFNi                           | J Fuse,T500mA,250V            | A D        | 12       | LPLTM0243AFZZ                  |     |   | ΑE         |
| FE601             | RTUNS0061AFZZ                           | J FM Front End [H]            | ΑХ         | 13       | LPLTM0199AFFW                  |     |   | AB         |
| FE601             | RTUNS0062AFZZ                           | J FM Front End [E]            | ΑХ         | 14       | LRTNP0058AFZZ                  |     |   | AA         |
| J801              | QJAKJ0119AFZZ                           | J Jack, Headphones            | ΑF         | 15       | LSLVP0024AFZZ                  | J   | Sleeve, Release Change                      | AB         |
| J802              | QJAKC0068AFZZ                           | J Jack, Phono Power Out       | A C        |          |                                |     | Lever                                       |            |
| LCD201            | RV-LX0091AFZZ                           |                               | ΑТ         | 16       | LSLVP0025AFZZ                  | J   | Sleeve, Pause Release                       | AB         |
| LCD301            | RV-LX0092AFZZ                           | J LCD [CD]                    | AT         |          |                                |     | Lever                                       |            |
| ∆M1               | RMŌTV0364AF01                           | J Motor Ass'y [Spin]          | ΑТ         | 17       | MCAMP0112AFZZ                  |     | •   | AB         |
| <b>∆M2</b>        | RMoTV0365AF00                           | J Motor with Gear [Slide]     | ΑQ         | 18       | MLEVF2044AFZZ                  |     |   | AB         |
| <b>∆M</b> 3       | RMŌTV0366AFZZ                           | J Motor with Pulley           | AM         | 19       | MLEVF2045AFFW                  | J   | Lever, Record [Tape 2                       | A D        |
|                   |   | [Loading]                     |            |          |                                |     | Only]                                       |            |
| M401              |   | Part of Ref. No.VR408         | _          | 20       | MLEVF2046AFFW                  |     |   | A D        |
| <b>△M701,702</b>  | RMōTV0303AF08                           | J Motor with Pulley           | AR         | 21       | MLEVF2047AFFW                  |     |   | A D        |
| PL201,202         | RLMPM0208AFZZ                           | J Lamp                        | A D        | 22       | MLEVF2048AFFW                  |     |   | A D        |
| PL301,302         | RLMPM0208AFZZ                           | J Lamp                        | A D        | 23       | MLEVF2049AFFW                  |     |   | A D        |
| PL401,402         | RLMPM0208AFZZ                           | J Lamp                        | A D        | 24       | MLEVF2050AFZZ                  |     |   | A D        |
| RLY801            | RRLYU0024AFZZ                           |                               | AM         | 25       | MLEVF2051AFZZ                  |     |   | A C        |
| RMC401            |   | J Receiver, Remote Control    | ΑL         | 26       | MLEVF2053AFFW                  |     | •   | AA         |
| SO501             | QSōCJ4629AFZZ                           | J Socket,6Pin,RCA Type        | АН         | 27       | MLEVF2054AFFW                  | J   | Lever, Fast Forward/                        | AA         |
|                   |   | [AUX/REC OUT/                 |            |          |                                |     | Rewind Prevention                           |            |
|                   | _                                       | PHONO]                        |            | 00       | MI EVEDDEEAEEW                 |     | [Tape 2 Only]                               |            |
| S0601             |   | J Socket [Antenna]            | AG         | 28<br>29 | MLEVF2055AFFW                  |     |   | AA         |
| SO801             |   | J Terminal,Speaker            | AG         | 30       | MLEVF2056AFFW<br>MLEVF2264AFZZ |     |   | AA         |
| SW1               | QSW-P9209AFZZ                           | J Switch, Push Type [Pickup   | A C        |          |                                |     | Lever.Release Change                        | AC         |
|                   |   | In]                           |            | 31<br>32 |                                |     | , ,   | AC         |
| SW2               | _                                       | J Switch,Leaf Type            | A D        | 32       | MILEVPU/JOAFZZ                 | J   | Roller Ass'y, Fast Forward/<br>Rewind       | ΑF         |
| SW201~210         | QSW-K0181AFZZ                           | J Switch, Key Type [Tuner     | ΑВ         | 33       | MI EVENZENATON                 |     | Lever, Erase Prevention                     | Λ Λ        |
|                   |   | Control]                      |            | 33       | WILEVPU/ BUAFUU                | J 1 | [Tape 2 Only]                               | ΑA         |
| SW280             | QSW-P0911AFZZ                           | J Switch, Push Type [Tape     | АМ         | 34       | MLEVP0761AF00                  |     | Lever, Holder Lock                          | АА         |
|                   | *************************************** | Control]                      |            | 36       |                                |     | Lever, Button                               | AA         |
| SW301~309         | QSW-K0181AFZZ                           | J Switch, Key Type [CD        | ΑВ         | 37       | MLEVP0784AF00                  |     | Lever,FA Senser                             | AB         |
|                   |   | Control]                      |            | 38       | MLEVP0880AFZZ                  |     |   | AB         |
| SW401~405         | QSW-K0181AFZZ                           |                               | ΑВ         | 39       |                                |     | •   | A B        |
|                   |   | [Function]                    |            | 40       |                                |     | Lever, Pause Release                        |            |
| SW701             | QSW-S0540AFZZ                           | J Switch, Slide Type [Rec./P. | AG         | 40       | MLEVP0762AF00<br>MLEVP0890AF00 |     | Latch Plate [Tape 1]                        | A A<br>A A |
|                   |   | B]                            |            | 41       |                                |     | Latch Plate [Tape 2]                        |            |
| SW702             | QSW-S042/AFZZ                           | J Switch, Slide Type [Beat    | A C        | 42       | MSPRC0458AFFJ                  |     | Spring, Pause Lock Lever                    | AA         |
|                   |   | Cancel]                       |            | 42       | MSPRC0691AFFJ                  |     | Spring, Supply Reel [Tape 1]                |            |
| SW703             |   | J Switch, Skeleton Type       | A D        | 43       | MSPRC0823AFFJ                  |     | Spring, Supply Reel [Tape 2]                | AA         |
| SW704             | -                                       | J Switch, Leaf Type           | AB         | 43       | MSPRC0693AFFJ<br>MSPRC0816AFFJ |     | Spring, Azimuth                             | AA         |
| SW705             | _                                       | J Switch, Skeleton Type       | A D        | 45       | MSPRD0875AFFJ                  |     | Spring,FA Senser Lever                      | AA         |
| SW706             |   | J Switch, Leaf Type           | AB         | 40       | MOLKDOOLDWITT                  | J,  | Spring,Fast Forward/<br>Rewind Lever Return | M M        |
| SW707             |   | J Switch, Leaf Type           | A C        | 46       | MSPRD0876AFFJ                  |     | Spring, Stop/Pause Lever                    | АА         |
| <b>∆SW901</b>     | QSW-P9202AFZZ                           | J Switch, Push Type           | ΑF         | 40       | MOLKDOO10ALL1                  | J   | Return                                      | AA         |
| 7000              | 00110115 155 155                        | [Power]                       |            | 47       | MSPRD0877AFFJ                  | 1.0 | Spring, Pinch Roller                        | ΑА         |
| TP601             |   | J Plug,2Pin [Test Point]      | AA         | 48       | MSPRD0877AFFJ                  |     | Spring, Pinch Roller<br>Spring, Ground      | AA         |
| TP702             |   | J Plug,6Pin [Test Point]      | AC         | 49       |                                |     | Spring, Ground<br>Plate Spring, Cassette    | AA         |
| WT501             |   | J Socket,10Pin,Wire Trap      | A D        | 7.7      | MOLINE V43ZAFFW                | J   | Press                                       | ^ ^        |
| WT502             | -                                       | J Socket,7Pin,Wire Trap       | AC         | 50       | MSPRT1308AFFJ                  | 1 0 | Spring,Fast Forward/                        | АА         |
| WT503             |   | J Socket,10Pin,Wire Trap      | A D        | 30       | MOLITITOONITI                  | 5 ( | Rewind Roller Ass'y                         | ~ ^        |
| WT601             | QUNUMBBUKAFZZ                           | J Socket,10Pin,Wire Trap      | A D        | I        |                                |     | Refille Rollel Maa y                        |            |
|                   |   |                               |            |          |                                |     |   |            |

| REF.NO.      | PART NO.                       | *  | DESCRIPTION                                       | CODE       | REF.NO. | PART NO.                       | * | DESCRIPTION                                 | CODE        |
|--------------|--------------------------------|----|---|------------|---------|--------------------------------|---|---|-------------|
| 51<br>52     | MSPRT1309AFFJ<br>MSPRT1310AFFJ |    | Spring Holder Lock                                | A A        |         | CABINET                        | P | PARTS                                       |             |
| 53           | MSPRT1312AFFJ                  |    | Spring, Record Lever [Tape 2 Only]                |            | 101     |                                |   | Cassette Holder Ass'y                       | ΑQ          |
| 55<br>56     | MSPRT1315AFFJ                  |    | Spring Lock Plate                                 | A A<br>A A | 101-1   |                                |   | [Tape 1]<br>Holder,Cassette(Not             |             |
| 57           | MSPRT1365AFFJ                  |    | Spring Play Lover                                 | AA         | 101.1   |                                |   | Replacement Item)                           |             |
| 58           |                                |    | Spring, Senser Killer Lever                       | AA         | 101-2   | GMADC0113AFSA                  | J | Window, Cassette Holder                     | ΑН          |
| 61           |                                |    | Belt, Drive [Tape 2]                              | AB         | 102     |                                |   | Cassette Holder Ass'y                       | A Q         |
| 61           |                                |    | Belt, Drive [Tape 1]                              | AB         |         |                                |   | [Tape 2]                                    |             |
| 62           |                                |    | Belt,Fast Forward/Rewind [Tape 2]                 | AB         | 102-1   |                                |   | Holder,Cassette(Not<br>Replacement Item)    | =           |
| 62           | NBLTK0483AFZZ                  | J  | Belt,Fast Forward/Rewind                          | АВ         | 102-2   | GMADC0114AFSA<br>CPNLC2119AF01 |   | Window, Cassette Holder                     | A H<br>B·B  |
| 63           | NBLTK0484AFZZ                  | 1  | [Tape 1]<br>Beit.FA                               | ΑВ         | 103- 1  | - OI ITEO2113AI U.I.           | J | Panel, Front (Not                           | <del></del> |
| 64           |                                |    | Reel Ass'y, Supply [Tape 1]                       |            |         | /                              |   | Replacement Item)                           |             |
| 64           |                                |    | Reel Ass'y, Supply [Tape 1]                       |            | 103- 2  | GMADi0052AFSA                  | J |   | ΑH          |
| 66           |                                |    | Reel Ass'y Take-Up                                | AH         | 103- 3  | GMAD10053AFSA                  |   |   | АН          |
| 67           | NFLYC0212AFZZ                  |    |   | AG         | 103- 4  | GMADM0132AFSA                  | J | Window, Multi Sound                         | ΑQ          |
| 68           | NGERH0245AF00                  |    | Gear, Play  | AA         | 103- 5  | GMADZ0155AFSA                  | J | Window, Remote Control                      | A D         |
| 69           | NGERH0246AF00                  |    |   | AA         | 103 6   | HDECP0900AFSA                  | J | Decoration Plate, Tape                      | ΑF          |
| 71           | NPLYR0193AFZZ                  | J  | Pulley,FA   | AB         |         | :                              |   | Selector                                    |             |
| 72           | NROLY0090AFZZ                  | J  | Pinch Roller Ass'y                                | A D        | 103- 7  |                                |   | Decoration Plate, Deck, Left                |             |
| 73           | NSFTT0507AFFD                  | J  | Shaft, Button                                     | ΑВ         | 103- 8  | HDECQ0368AFSA                  | J | Decoration Plate, Deck,                     | A C         |
| 74           | PGIDM0144AFZZ                  |    |   | ΑE         | 100.0   |                                |   | Right                                       |             |
| 75           |                                |    | Head, Erase [Tape 2]                              | A G        | 103~ 9  | HDECQ0369AFSA                  | J | Decoration Plate, Deck,                     | A C         |
| 76           |                                |    | Head, Playback [Tape 1]                           | ΑL         | 102.10  | UDE0701674504                  |   | Center                                      |             |
| 76           | RHEDH0135AFZZ                  | 1  | Head, Record/Playback                             | ΑL         | 103-10  |                                |   | Decoration Plate,Leg,Front                  |             |
|              |                                |    | [Tape 2]  |            | 103-11  | LX-LZ0083AF00                  |   | Push Rivet                                  | AA          |
| 77           | QCNWN4076AFZZ                  |    |   | AB         | 103-12  |                                |   | Felt, Rear Reg, φ17mm                       | AA          |
| 78           | LHLDW3092AFZZ                  |    |   | AA         | 103-13  | GCAB-1729AFSA                  |   | Sheet, Remote Control                       | AA          |
| 79           | LHLDW1075AFZZ                  |    |   | AA         | 105     | GCASP0110AF00                  |   | Case, Battery                               | AQ          |
| 80           | MLEVEZU/5AFFW                  | J  | Plate, Prevention [Tape 2                         | AA         | 106     | GCTVA1851AFSB                  |   |   | A F<br>A G  |
| 501          | IV DZAJETACED                  |    | Only]   | A A        | 107     | GITAR0156AFZZ                  |   |   | AL          |
| 502          | LX-BZ0451AFFD                  |    |   | A A<br>A A | 107     | GiTAR0157AFZZ                  |   |   | AL          |
| 503          |                                |    | Washer, $\phi 2.1 \times \phi 4.1 \times 0.25$ mm |            | 108     | GiTAS0114AFSA                  |   |   | AP          |
| 505          |                                |    | Washer, $\phi 1.8 \times \phi 3.4 \times 0.5$ mm  | AA         | 109     | GLEGP0162AFSA                  |   |   | AB          |
| 506          |                                |    | Washer, Take-up Reel                              | AA         | 110     |                                |   | Decoration Plate, Multi                     | AF          |
| 507          |                                |    | Washer, $\phi 1.2 \times \phi 3.2 \times 0.5$ mm  | AA         |         |                                |   | Sound                                       |             |
| 509          |                                |    | Screw, $\phi$ 2×4mm                               | AA         | 111     | HINDP2144AFSA                  | J | Plate, Multi Sound                          | ΑL          |
| 510          | XHBSD20P05000                  |    | Screw, $\phi$ 2×5mm                               | AA         | 112     | HPNLZ1117AFSA                  | J | Panel,CD                                    | A G         |
| 511          | XHBSD20P08000                  | J  | Screw, $\phi$ 2×8mm                               | AA         | 113     | JKNBK0437AFSA                  |   |   | A D         |
| 512          | XHBSD20P09000                  | J  | Screw, $\phi$ 2×9mm                               | AA         | 114     | JKNBK0441AFSA                  |   |   | A C         |
| 513          | XJBSD20P05000                  |    | Screw, $\phi$ 2 $\times$ 5mm                      | AA         | 115     | JKNBM1014AFSA                  | J | Button, Tape/Dubbing/                       | ΑB          |
| 514          | XREUJ20-04000                  |    | Ring, "E" Type, $\phi 2 \times 0.4$ mm            | AA         |         |                                |   | Dolby                                       |             |
| 515          | XWHJZ23-05044                  |    | Washer, $\phi 2.3 \times \phi 4.4 \times 0.5$ mm  | AA         | 116     | JKNBM1015AFSA                  |   | •   | AB          |
| 517          | XHPSD26P05000                  |    | Screw, $\phi$ 2.6X5mm                             | AA         | 117     |                                |   | Knob, Graphic Equalizer                     | AC          |
| 518          | XWHJZ21-01040                  |    | Washer, $\phi 2.1 \times \phi 4 \times 0.13$ mm   | AA         | 118     | JKNBZ1016AFSA                  |   | Button, Play, CD  Button, Play, CD          | ΑE          |
| 519          | LX-WZ9064AFZZ                  |    | Washer, $\phi 1.5 \times \phi 3.8 \times 0.5$ mm  | AA         | 119     | JUNDSTAT/ALSA                  | J | APSS Down,CD                                | ΑE          |
| 520          | XHBSD20P06000                  |    | Screw, $\phi$ 2×6mm                               | AA         | 120     | IKNR71018AFSA                  | ī | Button, Open/Close/                         | ΑF          |
| 521          | LX-WZ9069AFZZ                  |    | Washer, $\phi 1.2 \times \phi 4 \times 0.25$ mm   | AA         | 120     | JANDZIOTOAI SA                 | J | Repeat/Call/Memory/                         | AF          |
| 522<br>523   | XHPSD20P04000<br>XWHJZ23-01344 |    | Screw, φ2×4mm<br>Washer, φ2.3X φ4.4X0.13mm        | A A<br>AA  |         |                                |   | Stop/Clear,CD                               |             |
|              |                                |    |   |            | 121     |                                |   | Button, Preset Tuning                       | ΑE          |
|              | CD MECHAN                      | IS | M PARTS   |            | 122     |                                |   | Button, Band Selector                       | ΑE          |
| 301          | LCHSM0735AFZZ                  | J  | Chassis   | ΑF         | 123     | JKNBZ1021AFSA                  | J | Button, Memory/FM Mode/<br>Auto Scan/Tuning | A C         |
| 302          | LHLDW1075AFZZ                  |    |   | AA         | 124     | JKNBZ1022AFSA                  | J | Button, Function Selector                   | A G         |
| 303          | MSPRC0798AFZZ                  |    | Spring, Rack                                      | AA         | 125     | KCOUB0203AFZZ                  |   |   | AG          |
| 304          | NGERH0363AFZZ                  |    |   | AB         | 126     |                                |   | Bracket, Tuner PWB, Rear                    | AD          |
| 305          |                                |    | Gear, Drive                                       | AB         | 129     | LANGK0680AFZZ                  |   | Bracket, CD PWB, Left                       | ΑF          |
| 306          | NGERR0031AFZZ                  |    | Gear, Rack, Fix                                   | AB         | 130     |                                |   | Bracket, CD PWB, Right                      | ΑF          |
| 307          | NGERR0032AFZZ                  |    |   | AB         | 132     |                                |   | Bracket, Main PWB, Right                    | A D         |
| 308          | NSFTM0215AFFW                  |    |   | ΑE         | 133     |                                |   | Bracket, Tuner PWB, Front                   | A D         |
| <b>∆</b> 309 | RCTRH8112AFZZ                  |    |   | ВР         | 135     |                                |   | Bracket, Power PWB                          | A C         |
| 801          | XBPSD17P03000                  | J  | Screw, $\phi 1.7 \times 3$ mm                     | A A        | 136     | LANGQ1112AFZZ                  |   |   | A G         |
| 802          | XBPSD26P06J00                  |    | Screw, $\phi 2.6 \times 6$ mm                     | AA         | 137     |                                |   | Bracket, Tape Counter                       | ΑВ          |
| 803          | XEPSD20P08000                  | J  | Screw, ø2×8mm                                     | АА         | 138     | LANGZ0222AFZZ                  | J | Lever, Record                               | A C         |
|              |                                |    |   |            |         |                                |   |   |             |

| REF.NO.      | PART NO.                       | * | DESCRIPTION                            | CODE       | REF.NO.    | PART NO.                                | *      | DESCRIPTION   | CODE       |
|--------------|--------------------------------|---|--|------------|------------|---|--------|---|------------|
| <b>∆139</b>  | LBSHC0004AGZZ                  | J | Bushing,AC Power Supply<br>Cord        | АВ         | 616<br>617 | XJBSD30P14000<br>XJBSF40P12000          |        | Screw,φ3×14mm<br>  Screw,φ4×12mm,Black  | A A<br>A A |
| 1.40         | LCHSM0738AFZZ                  |   |  | ΑK         | 618        | XJSSD30P08000                           |        |   | AA         |
| 140          | LCHSM0738AFZZ                  |   |  |            | 619        |   |        | Screw, \$\phi 3 \times 10mm, Red  | AA         |
| 141          | LHLDA1091AFZZ                  |   |  | ΑВ         | 620        | XJTSD20P12000                           |        |   | AA         |
| 142          |                                |   |  | AC         | 621        |   |        | Screw, $\phi$ 3×10mm, Black   | AA         |
| 143          | LHLDP3095AFZZ                  |   | •                                      | AA         | 622        | LX-HZ0210AFFD                           |        |   | AA         |
| 144          | LHLDW1075AFZZ                  |   |  | AE         | 623        | LX-JZ0039AFFD                           |        |   | AA         |
| 145          | LHLDZ1429AFSA                  |   |  | ΑE         | 624        |   |        | Washer, φ3.2× φ10×0.35mm  | AA         |
| 146          | LHLDZ3117AFZZ                  |   |  | AB         | 625        | XJBSD26P08000                           |        |   | AA         |
| 147          | LPLTP0087AFZZ<br>LX-LZ0055AF00 |   |  | AA         | 023        | AJBODZOI OCOOO                          | -      | Sci CW, p 2.0 × Cinn  |            |
| 148          | MLEVF2178AFZZ                  |   |  | ΑD         |            | ACCESSORIES/P                           | A      | CKING PARTS   |            |
| 149          | MLEVP2176AFZZ                  |   |  | ΑD         |            | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |        |   |            |
| 150<br>151   | MLEVP0875AFZZ                  |   |  | ΑE         |            | QANTL0109AFZZ                           | J      | Loop Antenna  | ΑH         |
| 152          | MLIFP0040AFZZ                  |   |  | AC         |            | QANTW0104AFZZ                           | J      | FM Antenna  | ΑF         |
| 153          |                                |   | Spring, Cassette Holder                | AB         |            | RRMCG0165AFSA                           | J      | Remote Control Unit   | ΑY         |
| 154          | MSPRT1433AFFJ                  |   |  | ΑD         |            | SPAKA2081AFZZ                           | J      | Packing Add.,Left   | ΑH         |
| 155          | NBLTK0479AF00                  |   |  | AB         |            | SPAKA2082AFZZ                           | J      | Packing Add.Right   | АН         |
| 156          | NBLTK0485AFZZ                  |   |  | AB         |            | SPAKC5113AFZZ                           | J      | Packing Case [E]  | AL         |
| 157          | NGERH0370AFZZ                  |   |  | AA         |            | SPAKC5125AFZZ                           | J      | Packing Case [H]  | ΑL         |
| 158          | NGERRO033AFZZ                  |   |  | ΑE         |            | SPAKP0863AFZZ                           | J      | Polyethylene Bag,Unit   | ΑF         |
| 159          | PCOVZ1186AFZZ                  |   |  | AB         |            | SPAKX2319AFZZ                           |        |   | AB         |
| 160          | PCTVZ1200AFZZ                  |   |  | AB         |            | SPAKX2324AFZZ                           | J      | Tray Add.   | ΑE         |
| 161          | PCUSE0104AE77                  | J | Cushion, Loading Chassis               | AA         |            | SPAKX2332AFZZ                           |        |   | AB         |
| 162          |                                |   | Cushion, Loading Chassis               | AC         |            | SSAKA0024AFZZ                           | J      | Polyethylene Bag,   | AA         |
| 163          |                                |   | Cushion, Shift Lever                   | AB         |            |   |        | Accessories   |            |
| 164          | PMAGF0051AFZZ                  |   |  | ΑE         |            | TCAUH0056AGZZ                           | J      | Label, AC Power Supply  | AA         |
| 165          | PRDAR0633AFFW                  |   |  | ΑE         |            |   |        | Cord [E Only]   |            |
| 166          |                                |   | Heat Sink, Main PWB                    | AR         |            | TCAUH0352AFZZ                           | J      | Label, Cassette Caution [E  | AA         |
| 171          |                                |   | Spacer, Antenna Terminal               | АВ         |            |   |        | Only]   |            |
| 172          | PSPAY0102AFZZ                  |   |  | АВ         |            | TCAUZ0260AFZZ                           | J      | Label, Tray Add. Caution  | ΑВ         |
| <b>△173</b>  |                                |   | AC Power Supply Cord                   | A G        |            | TCAUZ0264AFZZ                           | .1     | [E]<br>Label,Tray Add. Caution  | АВ         |
| <b>∆</b> 173 | QACCV0052AF08                  | J | [E] AC Power Supply Cord               | ΑK         |            |   |        | [H]   Warranty Card [E]   | A B        |
|              |                                |   | [H]                                    |            |            |   |        | Warranty Card [H for  | AA         |
| △174         | QFSHD1054AFZZ                  |   |  | AA         |            | TURNOTUS TRI EL                         |        | West Germany]   |            |
| <b>▲175</b>  | QLUGP0165AFZZ                  | J | Lug                                    | AA         |            | TiNSE1460AEZZ                           |        | Operation Manual [E]  | ΑE         |
| 176          |                                |   | Terminal, Battery, Small               | AC         |            |   |        | Operation Manual [H]  | AP         |
| 177          |                                |   | Terminal, Battery, Large               | A C<br>A E |            |   |        | Label, MADE IN JAPAN [E   |            |
| 178          |                                |   | Core,Connector Lead [H<br>Only]        |            |            |   |        | Only]   |            |
| 179          |                                |   | Core, AC Power Supply<br>Cord [H Only] | A D        | P.W        | .B. ASSEMBLY (Ne                        | ot     | Replacement Item)   |            |
| 180          | TLABS0258AFZZ                  | J | Label, Laser Caution [H]               | АВ         | PWB-A1~4   | DCEKK0146AF03                           |        | Main/Headphone/Switch/  | _          |
| 180          |                                |   | Label, Laser Caution [E]               | A B        | 1 112 111  | DOD:::::01:::00:::00                    |        | Dolby Ind. PWB [E]  |            |
| 181          | TLABS0336AFZZ                  |   |  | AΒ         |            |   |        | (Combined Ass'y)  |            |
| 182          | LANGK0705AFZZ                  | J |  | A C        | PWB-A1~4   | DCEKK0146AF06                           |        | Main/Headphone/Switch/  | _          |
|              |                                |   | Mechanism                              |            |            |   | -      | Dolby Ind. PWB [H]  |            |
| 183          | LHLDW1123AFZZ                  |   |  | AA         |            |   |        | (Combined Ass'v)  |            |
| 184          | LHLDW9003CEZZ                  |   |  | AA         | PWB-B1~3   | DCEKN0052AF03                           |        | LCD/Volume/Vol. Ind.  | _          |
| 185          | LX-LZ0083AF00                  |   |  | AA         |            |   |        | PWB [E]   |            |
| 186          | PCUSS0445AF00                  | J | Cushion                                | AC         |            |   |        | (Combined Ass'y)  |            |
| 187          |                                |   | Shield,FM Front End [H<br>Only]        | ΑK         | PWB-B1~3   | DCEKN0052AF06                           |        | LCD/Volume/Vol. Ind.<br>PWB [H]   | _          |
| 188          | QCNWN4141AFZZ                  | J | Wire with Chip [H Only]                | AB         |            |   |        | (Combined Ass'y)  |            |
| 601          | LX-HZ0082AFZZ                  | J | Screw, $\phi 4 \times 8$ mm            | ΑА         | DWD 01.0   | DOEVBOODAEOS                            |        | Tuner/Battery PWB [E]   | _          |
| 602          | LX-HZ0087AFFD                  | J | Screw, $\phi 3 \times 8$ mm            | AA         | PWB-C1,2   | DCERRUS9ZAFUS                           | •      |   |            |
| 603          | LX-JZ0003AFFD                  |   |  | AA         | DWD 01.0   | DOCKDOSOSAESE                           |        | (Combined Ass'y)  |            |
| 604          | LX-JZ0010AFFD                  |   |  | AA         | PWB-C1,2   | DCERRUS9ZAFU6                           | *      | I Tuner/Battery PWB [H] (Combined Ass'y)  | _          |
| 605          | LX-JZ0022AFFD                  |   |  | ΑА         | DWD D      | DUNTA0266AF03                           |        |   |            |
| 606          | LX-JZ0065AFFF                  |   |  | AA         | PWB-D      | DUNTA0268AF03                           |        |   |            |
| 607          | LX-JZ0108AFFD                  |   |  | AΑ         | PWB-D      |   |        |   | _          |
| 608          | XBPSD20P03000                  |   |  | ΑA         | PWB-E      | DCEKS0048AF24                           | •      | CDFWG   |            |
| 609          | XBPSD26P05JS0                  |   |  | АА         | RP-302H/E  | co                                      | 111    |   |            |
| 610          | XHBSD30P06000                  |   |  | АА         |            | CC                                      | , I.L. | •   |            |
| 611          | XHBSD30P08000                  |   |  | AΑ         | L1001      | VP-CH101K0000                           | Т      | I 100 µH.Choke  | AA         |
| 612          | XHBSD30P10000                  |   |  | A A        |            |   |        | , |            |
| 613          |                                |   | Screw, $\phi$ 4×10mm, Black            | AΑ         |            |   |        |   |            |
| 614          | XJBSD30P08000                  | J | Screw,∲3×8mm                           | АА         |            |   |        |   |            |
| 615          | XJBSD30P10000                  |   |  | ΑA         |            |   |        |   |            |
|              |                                |   |  |            |            |   |        |   |            |

| REF.NO.         | E.E. PART. NO            | . *              | DESCRIPTION                                      | CODE       | REF.NO.    |      | PART NO.                         | ★ DESCRIPTION   | CODE        |
|-----------------|--------------------------|------------------|--|------------|------------|------|----------------------------------|---|-------------|
| 1.7             |                          |                  | GD (CT) 13 (F)                                   | , .        | 247        | . 32 | 9AH603SL24F079                   | J Spring, Arm Lifter Saft   | A A         |
|                 |                          | CAPACITOR        | A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1          |            | 248        |      | 9AH604MD26032                    | J Rubber, Dust Cover  | AB          |
| There are two t | vnes of canacito         | rs available an  | d they can be identified f                       | rom each   | 249:       |      | 9AH604F700045                    |   | AP          |
| ,               | ng their Part Nur        |                  | a they can be identified t                       | TOTT CACIT | 250        |      | 9AH604SL24F036                   |   | AC          |
| · Ceramic type  |                          |                  |  |            | 251<br>252 |      | 9AH604SL24F037                   |   | AK          |
| A symbol "C     | " or "K" is given        | at the 3rd digit | t of its Part Number like                        | "VCC (or   | 253        |      | 9AH604SL24F038<br>9AH604SL24F039 | J Cushion, Wotor  | A A.<br>A B |
| K)J."           |                          |                  |  |            | 254        |      | 9AH603L100104                    |   | A C.        |
|                 | or type capacito         |                  |  |            | 255        |      |                                  | J Label, Specifications [E]   | A B         |
|                 |                          |                  | s Part Number like "VC"                          |            | 255        |      | 9AH501302H300                    | J Label, Specifications [H]   | АВ          |
|                 |                          |                  | cated by the symbol giv<br>±5%), "K" (±10%), "M" |            | 256        |      | 9AH100L100332                    |   | AF          |
| "N" (±30%). "   | C" (±0.25 pF).           | 'D'' (±0.5 pF)   | , "Z" (+80—20%).                                 | (-2070),   | 257        |      | 9AH100B600139                    | J Lever, Speed/Cue Button   | AB          |
| HA              |                          | 1 1 1 1          | , _ (,,,,,,,                                     |            | 258<br>259 |      |                                  | J Decoration Plate, Size  | A D         |
| C1 A            | 9AH413H46                | 1003 J 0.02      | 2 μF,50V   | АВ         | 260        |      | 9AH703SL24F050                   | J Return Link Ass'y   | A H<br>A E  |
| 19              | <u> </u>                 |                  | · · · · · · · · · · · · · · · · · · ·            |            | 261        |      | 9AH703SL24F052                   |   | AK          |
| 長さ              | OTHER                    | CIRCUITRY        | PARTS  |            | 262        |      |                                  | J Hinge, Dust Cover   | AE          |
| M1              | 944704110                | 0394 I Mo        | tor with Pulley                                  | ΑW         | 263.       |      | 9AH703SL24F053                   | J Turntable Shaft Ass'y   | AP          |
| SW101,102       |                          |                  | itch Leaf Type                                   | AE         | 264        |      | 9AH704L100397                    | J Tone Arm Ass'y  | BE          |
| SW103           |                          |                  | itch,Leaf Type                                   | ΑE         | 264-1      |      | 1                                | Tone Arm(Not  |             |
|                 | ·                        |                  |  |            | 264.2      |      | DOTDEC1034533                    | Replacement Item)   |             |
| 7.3             | PLAYER I                 | MECHANISM        | I PARTS  |            | 264-2      |      | PNDLD0104AFZZ                    | J Cartridge(CART-160)   | AY          |
| 201             | 9AH100B60                | D 1 4 4 1 1 146  | is Haldon  | 4.0        | 264-4      |      | 9AH100B601180                    |   | A X<br>A C  |
| 202             | 9AH100L10                |                  |  | A B<br>A W | 265        |      |                                  | J Label, Made in TAIWAN [E  |             |
| 203             | 9AH100302                |                  |  | ΑZ         |            |      |                                  | Only]   |             |
| 204             | 9AH100L10                |                  |  | ΑŪ         | 701        |      | 9AH602F200010                    |   | AA          |
| 205             |                          |                  | ton [Play/Stop]                                  | AC         | 702        |      |                                  | J Washer, $\phi$ 6 $\times$ $\phi$ 8 $\times$ 1.5mm   | AB          |
| 206             |                          |                  | ton [Speed/Cue]                                  | A C        | 703        |      | 9AH601A100004                    |   | AA          |
| 207             | 9AH100SL2                |                  |  | AB         | 704 A      |      | 9AH6.01SL24F010                  |   | AA          |
| 208             | 9AH100SL24               |                  |  | AB         | 705        |      | 9AH601SL24F011<br>9AH602B600056  |   | AA          |
| 209<br>210      | 9AH100SL24<br>9AH100F70  |                  |  | A B<br>A B | 707        |      | 9AH602B600057                    |   | A A<br>A A  |
| 211             | 9AH100SL24               |                  | , , ,  | A B        | 708        |      | 9AH602B600058                    |   | AA          |
| 212             | 9AH100SL24               |                  |  | AC         | 709        |      | 9AH602MD26081                    | J Screw, $\phi$ 2×10mm  | AA          |
| 213             | 9AH100SL24               |                  |  | AB         | 710        |      | 9AH602K680088                    |   | AA          |
| 214             | 9AH100SL2                |                  |  | ΑВ         | 711        |      | 9AH602SL24F092                   |   | AC          |
| 215             | 9AH100SL24               |                  |  | AG         | 712<br>713 |      | 9AH602SL24F094<br>9AH602SL24F095 | J Screw, $\phi$ 3×10mm  | AA          |
| 216<br>217      | 9AH100SL24               |                  | i,Return<br>er,Size Selector                     | A D        | 714        |      | 9AH602SL24F096                   |   | A A<br>A A  |
| 218             | 9AH1005E2                |                  |  | A B<br>A B | 715        |      | 9AH602SL24F097                   |   | AA          |
| 219             | 9AH100SL24               |                  |  | AF         | 716.       |      | 9AH602SL24F109                   |   | AB          |
| 220             | 9AH100SL24               |                  |  | AH         | 717        |      | 9AH602SL24F099                   |   | AA          |
| 221             | 9AH100F700               | Mint .           | 4 1 2  | A S        | 718        |      | 9AH602SL24F100                   | J Screw, Specal   | AB          |
| 222             | 9AH200SL24               |                  |  | ΑF         | 719        |      | 9AH606F200006                    | J Washer, $\phi 3.5 \times \phi 10 \times 0.3$ mm   | AA          |
| 223             | 9AH200SL24               |                  |  | A D        | 720<br>721 |      |                                  | J Ring, "E" Type, $\phi 3 \times 0.6$ mm<br>J Ring, "E" Type, $\phi 5 \times 0.6$ mm                  | AA          |
| 224<br>225      | 9AH200SL24<br>9AH200SL24 | 111 2            |  | A E<br>A C | 722        |      |                                  | J Washer, $\phi 2.8 \times \phi 8 \times 0.35$ mm   | A A<br>A A  |
| 226             | 9AH200SL24               |                  |  | AD         | 723        |      |                                  | J Washer, $\phi 4.2 \times \phi 10 \times 0.5$ mm   | AA          |
|                 | 9AH300SL24               |                  |  | A E        | 724        |      |                                  | J Ring, "E" Type,   | AA          |
| 228             | 9AH300SL24               |                  |  | AC         | 725        |      |                                  | J Washer, $\phi 3.2 \times \phi 5.7 \times 0.7$ mm  | AA          |
| 229             | 9AH300SL24               |                  |  | A C        | 726        |      |                                  | J Washer, $\phi 2.6 \times \phi 4.6 \times 0.5$ mm  | AA          |
| 230             | 9AH603B600               |                  |  | A A.       | 727<br>728 |      | 9AH606SL24F055                   | J Washer, $\phi 8 \times \phi 14 \times 0.7$ mm   | AA          |
| 231<br>232      |                          |                  | ng,Speed/Cue Button                              |            | 729        |      |                                  | J Washer, $\phi 4.5 \times \phi 8 \times 0.3$ mm<br>J Washer, $\phi 3.5 \times \phi 10 \times 0.3$ mm | A A<br>A A  |
| 233             | 9AH408L100               |                  |  | A P<br>A G | 730        |      |                                  | J Washer, $\phi 3.5 \times \phi 7 \times 0.3$ mm  | AA          |
| 234             | 9AH501302E               |                  |  | AH         | 731        |      | 9AH602MD26082                    |   | AA          |
| 235             | 9AH603MD26               |                  |  | A A        | 732 .      |      | 9AH602B600072                    | J Screw, ¢3×10mm  | A A         |
| 236             | 9AH603SL24               | F066 J Spri      | ng,Trigger Arm                                   | AC         | 733        |      | 9AH606DP36F064                   | J Washer, $\phi$ 5 $\times$ $\phi$ 8 $\times$ 0.25mm  | A A         |
| 237             |                          |                  | ng,Return Link Ass'y                             | A C        |            |      | ACCESSODIES /D                   | CKING DARTE   |             |
| 238             |                          |                  | ng,Start Lever                                   | AA         |            |      | ACCESSORIES/PA                   | CAING PARTS   |             |
| 239<br>240      | 9AH603SL24<br>9AH603SL24 |                  |  | AA         |            | ,    | TGANE1117AFZZ                    | J Warranty Card [E Only]  | АВ          |
| 241             | 9AH6035L24               |                  |  | A B<br>A C |            |      | 9AH100H200016                    | J EP Adaptor  | AB          |
| 242             | 9AH603L100               |                  |  | AC         |            |      | 9AH502302E110                    | J Operation Manual [Е   | AF          |
| 243             | 9AH603L100               |                  |  | AC         |            |      | DALLEGERESSA                     | Only]   |             |
| 244             | 9AH603SL24               | F076 J Spri      | ng,Play/Stop Button                              | АА         |            |      |                                  | J Polyethylene Bag,Unit<br>J Polyethylene Bag,Plug  | AC          |
| 245             |                          |                  | ng,Cam Driver                                    | AA         |            |      |                                  | J Sheet, Turntable Mat  | A B<br>A B  |
| 246             | JAHOUJSL24               | Fru/81 Spri      | ng,Senser Arm                                    | AA         |            |      | 14.                              |   |             |
|                 |                          |                  |  |            |            |      |                                  |   |             |

| REF.NO.                | PART NO.                        | *   | DESCRIPTION                                       | CODE       |  |  |  |  |  |  |  |
|------------------------|---------------------------------|-----|---|------------|--|--|--|--|--|--|--|
|                        | 9AH505MD31020                   | J   | Polyethylene Bag,EP<br>Adaptor                    | АА         |  |  |  |  |  |  |  |
|                        | 9AH505M204006                   | J   | Polyethylene Bag,<br>Turntable/Mat                | AΒ         |  |  |  |  |  |  |  |
|                        | 9AH506L100047                   | .1  | Packing Add., Unit                                | АМ         |  |  |  |  |  |  |  |
|                        | 9AH507B600070                   |     | Pad, Turntable Mat                                | A D        |  |  |  |  |  |  |  |
|                        | 9AH507302E516                   |     | Packing Case [E]                                  | A Q        |  |  |  |  |  |  |  |
|                        | 9AH507302HA517                  |     | Packing Case [H]                                  | A Q        |  |  |  |  |  |  |  |
|                        | 9AH509L100016                   | J   | Styrofoam, Dust Cover                             | ΑE         |  |  |  |  |  |  |  |
|                        | 9AH701302E324                   | J   | Polyethylene Bag,<br>Operation Manual [E<br>Only] | AA         |  |  |  |  |  |  |  |
|                        | 9AH701302H326                   | J   | Polyethylene Bag,EP<br>Adaptor [H Only]           | AA         |  |  |  |  |  |  |  |
| CP-302                 |                                 |     |   |            |  |  |  |  |  |  |  |
| L1                     | 97HCP302CōiL                    | J   | 0.22 mH   | АМ         |  |  |  |  |  |  |  |
| ELECTROLYTIC CAPACITOR |                                 |     |   |            |  |  |  |  |  |  |  |
| C1                     | 97HCP302CONDEN                  | 4 J | 1.5 µF,50V,±20%,Non<br>∼polar                     | AF         |  |  |  |  |  |  |  |
|                        | OTHER CIRCL                     | IJΤ | RY PARTS  |            |  |  |  |  |  |  |  |
| SP1,2                  | 97HCP302TWEETF                  |     |   | AM         |  |  |  |  |  |  |  |
| SP3,4                  | 97HCP302WooFEF                  | ۲۶  | Speaker, Woofer                                   | ΑY         |  |  |  |  |  |  |  |
| SPEAKER BOX PARTS      |                                 |     |   |            |  |  |  |  |  |  |  |
| 401                    | 97HCP302B0X                     | J   | Speaker Box                                       | ВВ         |  |  |  |  |  |  |  |
| 402                    | 97HCP302PNLAS                   | J   | Front Panel Ass'y                                 | BB         |  |  |  |  |  |  |  |
| 403                    | 97HCP302CBōARE                  |     |   | ΑE         |  |  |  |  |  |  |  |
| 404                    | 97HCP302D-CoVF                  |     |   | AC         |  |  |  |  |  |  |  |
| 405                    | 97HCP302LEADS                   |     | •   | AL         |  |  |  |  |  |  |  |
| 406                    | 97HCP302CABLE                   |     |   | AL         |  |  |  |  |  |  |  |
| 407                    |                                 |     | Label, Specifications for<br>West Germany         | A C        |  |  |  |  |  |  |  |
| 407                    |                                 |     | Label, Specifications                             | A C<br>A B |  |  |  |  |  |  |  |
| 408                    | 97HCP302PAPER<br>97HCP302D-PAKN |     |   | AH         |  |  |  |  |  |  |  |
| 409<br>410             | 97HL650LEG                      |     | Leg   | AD         |  |  |  |  |  |  |  |
| 411                    |                                 |     | Label, Made in Taiwan for                         | AA         |  |  |  |  |  |  |  |
| 412                    | 97HCP302GUM                     |     | UK Only<br>Gum                                    | AB         |  |  |  |  |  |  |  |
| 413                    | 97HCP302CUSHON                  |     |   | AA         |  |  |  |  |  |  |  |
| 901                    | 97HCP302R3X20                   |     | Screw, $\phi 3 \times 20$ mm                      | AA         |  |  |  |  |  |  |  |
| 902                    | 97HCP302R3X10                   |     | Screw, $\phi$ 3×10mm                              | AA         |  |  |  |  |  |  |  |
| 903                    | 97HCP302R3X12                   |     | Screw, $\phi$ 3×12mm                              | AA         |  |  |  |  |  |  |  |
| 904                    | 97HCP302R3X8                    | J   | Screw, $\phi$ 3×8mm                               | AA         |  |  |  |  |  |  |  |
| PACKING PARTS          |                                 |     |   |            |  |  |  |  |  |  |  |
|                        | 97HCP302CASE-                   | L.A | Packing Case                                      | AR         |  |  |  |  |  |  |  |
|                        |                                 |     | Packing Case for West<br>Germany                  | AR         |  |  |  |  |  |  |  |
|                        | 97HCP302P-ADD                   | J   | Packing Add, Unit                                 | AL         |  |  |  |  |  |  |  |
|                        | 97HCP302P-MAT                   |     | Styrofoam   | AE         |  |  |  |  |  |  |  |
|                        | 97HCP302P0P-A                   |     | Label, Pop  | AC         |  |  |  |  |  |  |  |
|                        | 97HCP302U-BAG                   | J   | Polyethylene Bag,Unit                             | A C        |  |  |  |  |  |  |  |
|                        |                                 |     |   |            |  |  |  |  |  |  |  |



# SERVICE INFORMATION

# © SERVICE-INFORMATION

# INFORMATION DE SERVICE

#### Supply Voltage Setting

The CD-302H can operate on either 110V or 220V power supply and it has been adjusted to the 220V position before leaving the factory. When operating the unit on 110V power supply, take the following procedures.

- 1. Remove the cabinet according to the "DISASSEMBLY" instruction.
- Cut out the jumper wire JW1 and add the jumper wire JW2 to the position shown in Fig. 98.
- 3. Replace the fuse F901 with a fuse of 2.0 A. (QFS-C202GAFNi)

#### Einstellung der Versorgungsspannung

Das CD-302H kann über eine Netzspannung von 110V oder 220V betrieben werden, und vor dem Versand ist das auf der 220V-Stellung eingestellt.

Beim Betrieb des Geräts über eine Netzspannung von 110V die foigenden Verfahren ausführen.

- Das Gehäuse gemäß der Anleitung "ZERLEGEN" entfernen.
- Den Schaltdraht JW1 abschneiden und den Schaltdraht JW2 zu der in Abb. 98 gezeigten Stelle hinzufügen.
- 3. Die Sicherung F901 gegen eine von 2.0A (QFS-C202GAFNi) auswechseln.

#### Réglage de la tension

Le CD-302H fonctionnant sur le secteur soit de 110V soit de 220V a été prérégié sur le 220V à la sortie de l'usine. Pour le faire fonctionner sur le secteur de 110V suivre les procédés ci-dessous.

- Déposer le coffret conformément à l'instruction "DÉMONTAGE".
- 2. Couper le fil volant JW1 et ajouter le fil volant JW2 à l'endroit indiqué sur la Fig. 98.
- 3. Changer le fusible F901 pour celui de 2.0A. (QFS-C202GAFNi)

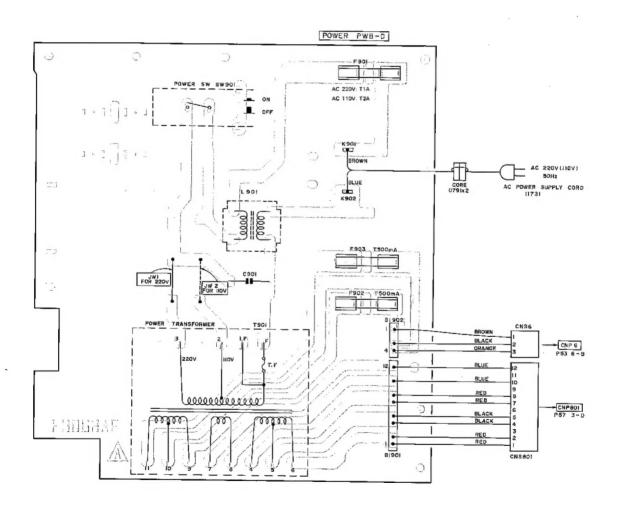


Figure 98